001

FULL ADDRESS:
100 GLENBOROUGH, SUITE 100
HOUSTON, TX 77067-3610

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

B. TYPE OF WELL: OIL ☑ GAS ☐ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑

7. UNIT or CA AGREEMENT NAME: N/A

2. NAME OF OPERATOR: NOBLE ENERGY, INC.

8. WELL NAME and NUMBER: ANTELOPE HOLLOW STATE* 32-20

3. ADDRESS OF OPERATOR: 100 GLENBOROUGH CITY HOUSTON STATE TX ZIP 77067-3610

PHONE NUMBER: (281) 872-2506

9 FIELD AND POOL, OR WILDCAT: WILDCAT

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 1844 FNL & 2046 FEL 600440 X 40.982639

AT PROPOSED PRODUCING ZONE: SAME 4537304 Y -109.806090

10. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 5 AIR MILES WEST OF MANILA

11. COUNTY: DAGGETT

12. STATE: UTAH

14. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	15. NUMBER OF ACRES IN LEASE:	16. NUMBER OF ACRES ASSIGNED TO THIS WELL:
524'	1,738	40
17. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	**18. PROPOSED DEPTH:**	**19. BOND DESCRIPTION:**
N/A	18,500	6313458 (BLANKET $120,000)
20. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**21. APPROXIMATE DATE WORK WILL START:**	**22. ESTIMATED DURATION:**
7,093' GL	12/21/2004	16 WEEKS

23. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
24	20	CON-	DUCTOR	100	PREMIUM LITE II	63 SX	2.27	12.0
17-1/2	13-3/8	J-55	61	2,000	PREMIUM LITE II	910 SX	2.27	12.0
17-1/2	13-3/8	J-55	61	2,000	CLASS G	805 SX	1.17	15.8
12-1/4	9-5/8	P/S	47	10,000	PREMIUM LITE II	810 ~~383~~ SX	~~2.25~~ 3.15	11.0 12.0
12-1/4	9-5/8	P/S	47	10,000	CLASS G	382 SX	1.15	15.8
8-1/2	5-1/2	P-110	23	18,500	PREMIUM LITE II	810 SX	1.90	13.0
8-1/2	5-1/2	P-110	23	18,500	CLASS G	650 SX	1.56	15.6

*FULL WELL NAME & NUMBER: *ANTELOPE HOLLOW STATE 32-20*

24. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER

☑ COMPLETE DRILLING PLAN

☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER

☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) BRIAN WOOD PHONE: (505) 466-8120 TITLE CONSULTANT FAX: (505) 466-9682

SIGNATURE BWood DATE 12/3/2004

(This space for State use only)

API NUMBER ASSIGNED: 43-009-30065

Approved by the Utah Division of Oil, Gas and Mining

APPROVAL:

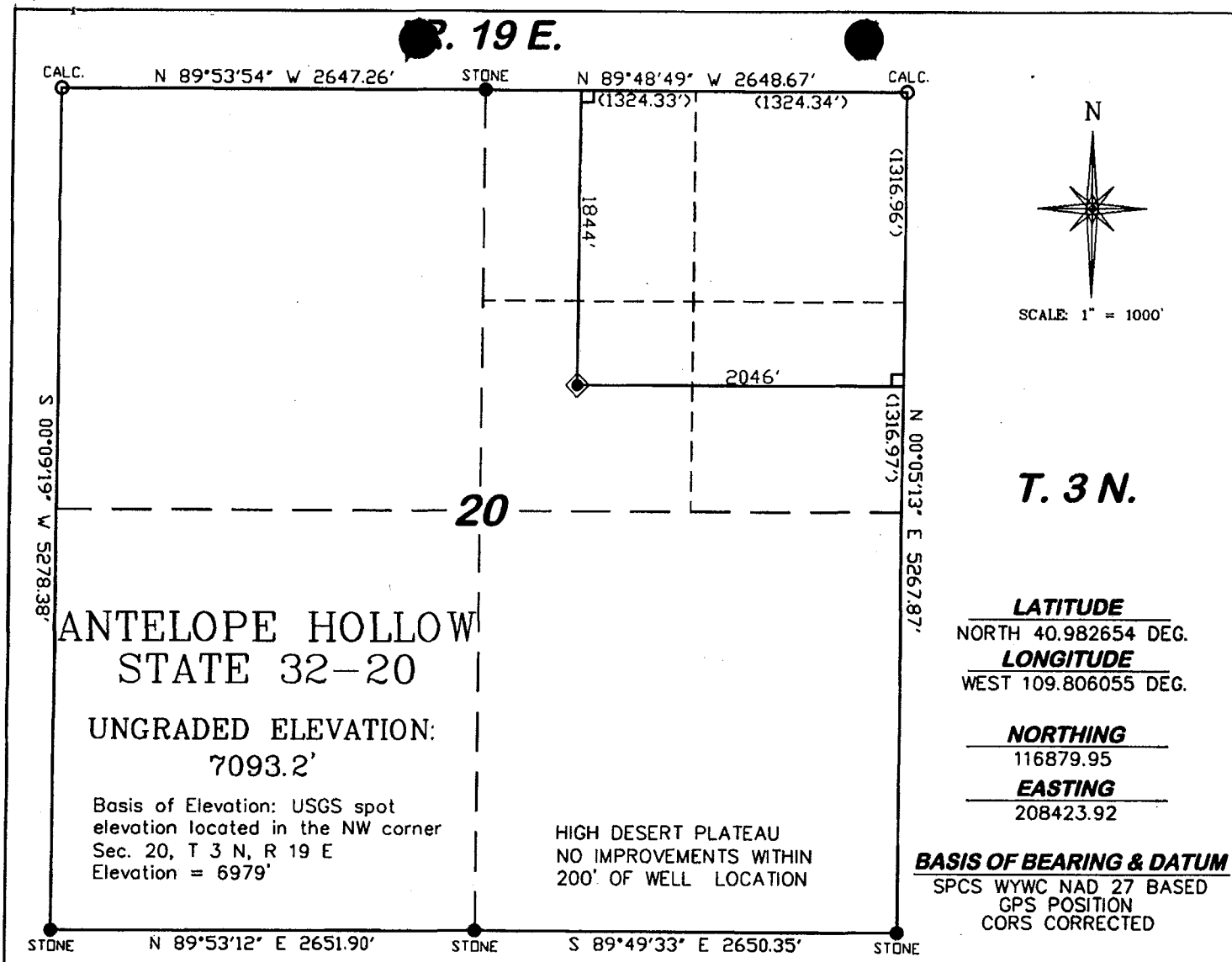
Date: 12-28-04

By:

(See Instructions on Reverse Side)

RECEIVED
DEC 06 2004
DIV. OF OIL, GAS & MINING

(5/2000)



LATITUDE
NORTH 40.982654 DEG.
LONGITUDE
WEST 109.806055 DEG.

NORTHING
116879.95
EASTING
208423.92

BASIS OF BEARING & DATUM
SPCS WYWC NAD 27 BASED
GPS POSITION
CORS CORRECTED

1000 500 0 1000 2000
SCALE FEET

SURVEYOR'S STATEMENT

I, Brian L. Forbes, of Rock Springs, Wyoming, hereby state: This map was made from notes taken during an actual survey under my direct supervision on NOVEMBER 17, 2004, *and it correctly shows the location of* ANTELOPE HOLLOW STATE 32-20.

REGISTERED LAND SURVEYOR
No. 184587
BRIAN L. FORBES
UTAH PLS No. 184587
11/29/04

NOTES

- ◈ WELL LOCATION
- ● FOUND MONUMENT
- L DENOTES 90° TIE
- o CALCULATED CORNER

EXHIBIT 1

DRIFFIN & ASSOCIATES, INC. 1414 ELK ST., ROCK SPRINGS, WY 82901	**PLAT OF DRILLING LOCATION FOR NOBLE ENERGY, INC.**
PH. (307) 362-5028	SCALE: 1" = 1000'
FAX (307) 362-1056	JOB No. 11910
	DATE DRAWN: 11/29/04
	1844' F/NL & 2046' F/EL, SECTION 20, T. 3 N., R. 19 E., SALT LAKE P.M. DAGGETT COUNTY, UTAH

Noble Energy, Inc.
Antelope Hollow State 32-20
1844' FNL & 2046' FEL
Sec. 20, T. 3 N., R. 19 E.
Daggett County, Utah

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Elevation
Bridger (ground level)	0'	30'	+7,093'
Green River	263'	293'	+6,830'
Wasatch	2,863'	2,893'	+4,230'
Fort Union	5,863'	5,893'	+1,230'
Almond	10,063'	10,093'	-2,970'
Mesa Verde	10,263'	10,293'	-3,170'
Ericson	10,654'	10,684'	-3,561'
Rock Springs	11,462'	11,492'	-4,369'
Blair	12,696'	12,726'	-5,603'
Mancos Hilliard	13,185'	13,215'	-6,092'
Niobrara	14,039'	14,069'	-6,946'
Base Niobrara	14,589'	14,619'	-7,496'
Frontier	17,442'	17,472'	-10,349'
Mowry	17,594'	17,624'	-10,501'
Dakota	17,790'	17,820'	-10,697'
Lower Dakota	17,852'	17,882'	-10,759'
Morrison	18,078'	18,108'	-10,985'
Total Depth (TD)	18,500'	18,530'	-11,407'

2. NOTABLE ZONES

Primary goal is the Dakota. Secondary goals are the shallower Cretaceous zones.

Oil & Gas Zones	Water Zones	Coal Zone
Almond	Bridger	Fort Union
Ericson	Fort Union	

Oil & Gas Zones
Rock Springs
Mancos Hilliard
Frontier
Dakota

3. PRESSURE CONTROL SYSTEM (See PAGES 3 & 4)

A 5,000 psi double ram, annular preventer, choke manifold, and kill line of the same rating will be used from surface casing to ≈10,000'. Will test to 5,000 psi high and 250 psi low. Test Hydril® to 2,500 psi.

A 10,000 psi system will be used from ≈10,000' to TD. Typical BOP stack, choke, and kill line models follow. Drilling contract has not yet been awarded, thus the exact system to be used is not known now.

Hydraulic controls will be on the rig floor and at the accumulator. The latter will be 100' from the well bore and next to the light plant. Auxiliary equipment will include upper and lower kelly cock valves with handles available, drill pipe safety valve on the floor to fit all strings in use, inside BOP or float sub available, and electronic pit volume monitor. All BOP connections will be flanged, welded, or clamped. Kill line will run unobstructed to the far edge of the substructure.

Stack and choke manifold will be tested when installed and at least once every 30 days thereafter. Tests to 0.22 psi/ft. or 1,000 psi, whichever is more, will be conducted before drilling out all cemented in place casing strings. BOP controls will be installed before drilling the surface casing plug, and will stay in use until the well is completed or plugged and abandoned. Pipe rams will be tested daily. Blind rams will be tested on all trips.

Manual control equipped ram preventers will be tested to the rated working pressure of the stack or to 70% of the internal yield of the casing, whichever is less. Ram preventers will be tested to working pressure if a test plug is used. Annular preventer will be tested to 50% of its rated working pressure. BOPs will be inspected and operated at least daily to assure good mechanical working order. All BOP mechanical tests, pressure tests, and inspections will be recorded on the driller's log or the daily drilling report.

4. CASING & CEMENT

Hole Size	O. D.	Pounds/Foot	Grade	Type	Age	Interval
24"	20"		Conductor Pipe		New	0' - 100'
17-1/2"	13-3/8"	61	J-55	B T & C	New	0' - 2,000'
12-1/4"	9-5/8"	47	P/S	L T & C	New	0' - 10,000'
8-1/2"	5-1/2"	23	P-110	L T & C	New	0' - 18,500'

Conductor pipe will be cemented to surface with ≈144 cubic feet (50% excess).

Surface casing will be cemented to the surface with >100% excess. Float collar will be set at ≈1,920'.

Lead slurry will be ≈910 sacks (≈2,066 cubic feet) Premium Lite II + 2% $CaCl_2$ + 1/4 pound per sack cello flake + 8% bentonite + 124.4% fresh water. Density = 12.0 pounds per gallon. Yield = 2.27 cubic feet per sack.

Tail slurry will be ≈655 sacks (≈766 cubic feet) Class G + 2% $CaCl_2$ + 1/4 pound per sack cello flake + 44.3% fresh water. Density = 15.8 pounds per gallon. Yield = 1.17 cubic feet per sack.

Top out slurry will be ≈150 sacks (≈174 cubic feet) Class G + 2% $CaCl_2$ + 44.4% fresh water. Density = 15.8 pounds per gallon. Yield = 1.16 cubic feet per sack.

Clinton Dworshak - Antelope Hollow State 32-20 / Intermediate Casing Cement Job

From: <MStringfield@nobleenergyinc.com>
To: <clintondworshak@utah.gov>
Date: 12/27/2004 4:01 PM
Subject: Antelope Hollow State 32-20 / Intermediate Casing Cement Job
CC: <BMurphy@nobleenergyinc.com>

Clint - We will alter our drill procedure to bring the top of cement for the intermediate casing up to 2800' to cover the Wasatch. To do this we will retain the tail slurry design included in the APD but will change the lead slurry density to 11.0 ppg which will give it a yield of 3.15 cf/sk. To achieve 6200' of fill (9000' up to 2800') with 30% excess will require 2524 cf of slurry which is 810 sks.

Thanks for helping us get this APD approved. If I can provide any further information please call (281-874-6780). Mark

Intermediate casing will be cemented to ≈7,000' with >33% excess. Float collar will be set at ≈9,920'.

Lead slurry will be ≈~~363~~ 810 sacks (≈817 cubic feet) Premium Lite II +0.02 pounds per sack Static Free + 0.65% R-3 low temperature retarder + 8% bentonite. Density = ~~12.0~~ 11.0 pounds per gallon. Yield = ~~2.25~~ 3.15 cubic feet per sack. amended by email 12/27/04 from Mark String field

Tail slurry will be ≈382 sacks (≈439 cubic feet) Class G + 0.3% R-3 + 0.2% CD-32 polymer dispersant + 1% FL-25 fluid loss control additive + 0.05 gps FP-6L foam control. Density = 15.8 pounds per gallon. Yield = 1.15 cubic feet/sack.

There will be ≈500' of overlap between top of long string cement and bottom of intermediate string cement. Production casing will be cemented to ≈9,500' with >20% excess. Float collar will beset at ≈18,420'.

Lead slurry will be ≈810 sacks Premium Lite II High Strength + 0.4% R-3 + 0.5% CD-32 + 0.6% FL-52 fluid loss additive + 0.3% sodium metasilicate. Density = 13.0 pounds per gallon. Yield = 1.90 cubic feet per sack.

Tail slurry will be ≈650 sacks Class G cement + 35% silica flour fluid loss control + 0.3% R-3 + 0.2% CD-32 + 1% FL-25 + 0.05 gps FP-6L. Density =15.6 pounds per gallon. Yield = 1.56 cubic feet per sack.

5. MUD PROGRAM

Depth	Base	ppg	Viscosity	YP	LGS
0' - 2,000'	Fresh water gel	8.6 - 8.9	30 - 50	8 - 10	<6%
2,000' - 10,000'	Fresh water polymer	8.6 - 8.9	34 - 42	12 - 15	≤100%
10,000' - TD	Oil base	9.0 - 12.0	40 - 55	8 - 15	≤60 ppb

Drill surface hole with fresh water, soda ash to treat hardness, 0.1 ppb EZ mud, + 15 ppb Aqua Gel. Dump/dilute for solids and add Crystal Drill to flocculate reserve pit. Use SAPP for bit balls. Use Maxiseal for lost circulation.

Intermediate hole will be drilled with fresh water polymer. Use 4 ppb Aqua Gel for wall cake and filtration control. Mud up with 0.5 ppb EZ Mud in fresh water and add 0.25 ppb Barazan-D for yield point. Add 0.25 - 0.5 ppb PAC-R for filtration. Add Aldacide-G for biocide. Use Fiber-Plug, Micatex, and sawdust to control lost circulation. Add caustic soda to prevent drill pipe corrosion.

Long string hole will be drilled with oil based mud due to low friction coefficient, longer bit life, lower mud weight, less chance of stuck pipe, smaller reserve pit, stabilizes shale, keeps well bore near gauge, longer life, and faster drilling. Displace hole with Invermul RF oil base mud. Use Geltone V for viscosity/yield point. Use EZ Mul/Invermul for emulsion. Maintain 4 ppb excess lime. Use Barablok to control HTHP. Use liquid sack $CaCl_2$ for water phase salinity. Raise weight only if needed to control gas.

Mud logger will be on location from base of surface casing to TD.

6. CORES, TESTS, & LOGS

Rotary side wall cores may be cut after evaluating logs. Drill stem tests may be run in the target zones if good shows are found. Induction, dipole sonic, density, neutron CMR logs will be run from base of surface casing to TD. Deviation surveys will be run every ≈500'

7. DOWN HOLE CONDITIONS

No hydrogen sulfide is expected. Maximum bottom hole temperature = 253° F. Maximum bottom hole pressure should be ≈9,100 psi.

8. OTHER INFORMATION

The anticipated spud date is December 21, 2005.

Surface Use Plan

1. DIRECTIONS & EXISTING ROADS (See PAGES 13 & 14)

From the junction of U-43 and U-44 in Manila, Utah
Go West 5.1 miles on U-43 to a wire gate (equivalent to Mile Post 2.8)
Then turn right and go North 0.15 mile along West side of fence
Then turn right and go East 0.35 miles to proposed well

2. NEW ROAD (See PAGE 14)

The last 0.5 mile of road will be built. It will have a ≥16' wide running surface and be crowned and ditched. Maximum disturbed width = 50'.

Existing gap in fence will be widened to 50' and an 18" x 50' culvert installed in the borrow ditch. A 20' wide cattle guard and gate will be installed ≈60' north of the pavement. That portion of the road south of the cattle guard will be surfaced with a base of ≈6" of pit run topped with ≈3" of gravel. The north-south fence will be shifted east and a new gate installed.

Road will then be built north ≈0.15 mile from the cattle guard along the west side of the fence. Then it will then go east ≈0.35 mile to the proposed pad. A cattle guard will be installed in the second fence. Culverts will be installed in the irrigation ditches and road as directed by the surface owner.

3. EXISTING WELLS (See PAGE 14)

There is one P & A well and six water wells within a mile radius. There are no gas, oil, injection, or disposal wells within a mile. Closest water well is 2,597' southwest.

4. PROPOSED PRODUCTION FACILITIES

A tank battery, dehydrator, meter run, and separator or heater-treater will be installed on the cut portion of the pad. All will be painted a flat earth tone color. Dikes of impervious compacted soil will surround all production vessels. Dikes will hold ≥110% of the capacity of the largest tank. Load lines will end with a barrel beneath the end to catch drips.

5. WATER SUPPLY

Water will be (depending on weather) piped via a temporary surface pipeline or trucked from the surface owner's water wells. The wells are in SW4 Section 17 (#41-451), SE4 Section 19 (#41-3160 & #41-3209), or SW4 Section 20 (#41-3159).

6. CONSTRUCTION

Blue Stakes Location Center (1-800-662-4111 or 801-532-5000) will be called at least two full business days before construction starts. Entire well site will be fenced before construction starts. A gate and/or cattle guard will be installed at the entrance to the pad. At least top 6" of topsoil will be stripped and piled west of the pad. Pit subsoil will be piled south of the pad. A diversion ditch will be cut south of the subsoil pile and inside the fence. Ditch will be at least 425' long. Reserve pits will be lined with 1 x 10^{-7} cm/sec reinforced ultraviolet and hydrocarbon resistant liner. Liner top will be buried.

7. WASTE DISPOSAL

Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, and as needed, toilet tanks will be

pumped and the contents disposed of in an approved sewage disposal facility. Disposal will comply with state rules and regulations.

Trash and other solid waste (including cans, paper, cable, etc.) will be contained in portable trash cages. Trash cage contents will be disposed of in a state approved sanitary landfill as needed and upon completion of operations.

The reserve pits will not be used for flaring or trash disposal. All flaring will be directed to a separate flare pit or temporary flare stack. Discharge point will be $\geq$120 feet away from the well bore, line securely anchored, and flared down wind. Frac fluid or load water may be discharged to the reserve pit as long as its materials are RCRA exempt, at least two feet of freeboard is maintained, and the fluids are chemically compatible with the pit liner.

Drill cuttings and drilling fluids (including salts and chemicals) will be disposed of in the reserve pit. The reserve pit will be designed to prevent the collection of surface runoff. Liquid hydrocarbons produced during completion operations will be placed in test tanks on the well location.

Any spills of oil or any other potentially hazardous material will be cleaned up and immediately removed to an approved disposal site.

8. ANCILLARY FACILITIES

There will be no air strips or camps. Camper trailers will be on the pad for the company man, tool pusher, and mud logger.

9. WELL SITE LAYOUT

See PAGES 15 -17 for depiction of the well pad, existing facilities, reserve pit, trash cage, access onto the pad, parking, living facilities, and rig orientation.

10. RECLAMATION

Rat and mouse holes will be filled and compacted as soon as the rig is removed.

Floating hydrocarbons will be removed from the pits as soon as possible after drilling operations cease. If this is not practical, the pit containing the oil or other adverse substance will be flagged overhead or covered with wire or plastic mesh to deter birds. Drill cuttings and mud will remain in the reserve pits until dry. Solibond® will be used to stabilize any pit with oil base mud as discussed with Gil Hunt. The pits will not be squeezed, crowded, or cut. When back filled, pit contents will be covered with at least 3' of dirt.

Reclamation starts once the reserve pits are dry, at which point they will be back filled. The pad and filled pits will be contoured to a natural shape and disturbed areas ripped or harrowed. A seed mix to be determined by the surface owner will be sown how and when to be determined by the surface owner. If the well is a producer, then the reserve pits and any other areas not needed for work overs will be reclaimed as previously described.

11. SURFACE OWNER

All construction is on surface owned by the Circle Bar Ranch. Ranch owner is George Olson. his address is Circle Bar Ranch Road, Manila, UT 84046. His phone numbers are (435) 784-3200 and (435) 784-3500. A surface use agreement affidavit is attached.

12. OTHER INFORMATION

Nearest hospitals are ≈70 miles away in Rock Springs (Memorial Hospital at 1200 College Drive (307) 362-3711)) or Vernal (Ashley Valley Medical Center at 151 West 200 North (435) 789-3342)). Rock Springs is a faster drive.

13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Brian Wood
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87508
(505) 466-8120 FAX: (505) 466-9682 Mobile: (505) 699-2276

The field representative will be:

Mark Stringfield
Noble Energy, Inc.
100 Glenborough Dr., Suite 100
Houston, TX 77067-3610
(281) 876-6150 FAX: (281) 872-2555 Mobile: (281) 799-2303

December 2, 2004

Affidavit of Surface Use Agreement

A Surface Use Agreement dated November 17, 2004 exists by and between Noble Energy, Inc. and Circle Bar Ranch covering the use of land connected with the Antelope Hollow State 32-20 well located in the SW/4 NE/4 of Section 20, T3N-R19E, Daggett County, Utah.

Noble Energy, Inc. agrees to abide by the terms and conditions of said Surface Use Agreement.

On behalf of Noble Energy, Inc.:

Jack E. Anderson
Senior Negotiator

State of Texas)
) ss:
County of Houston)

Subscribed and sworn to before me this 2ND day of December, 2004 by Jack E. Anderson.

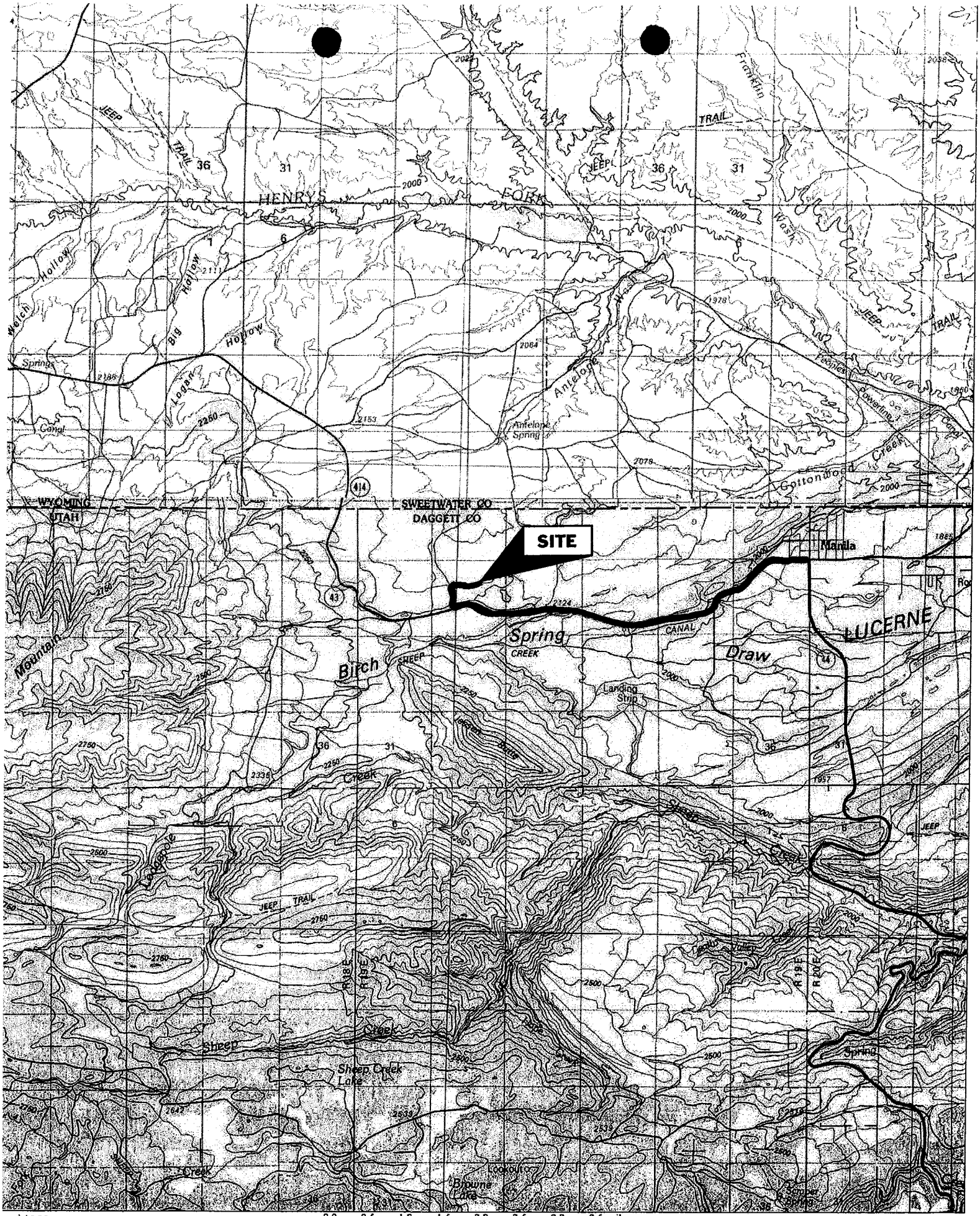
Witness my hand and notarial seal.

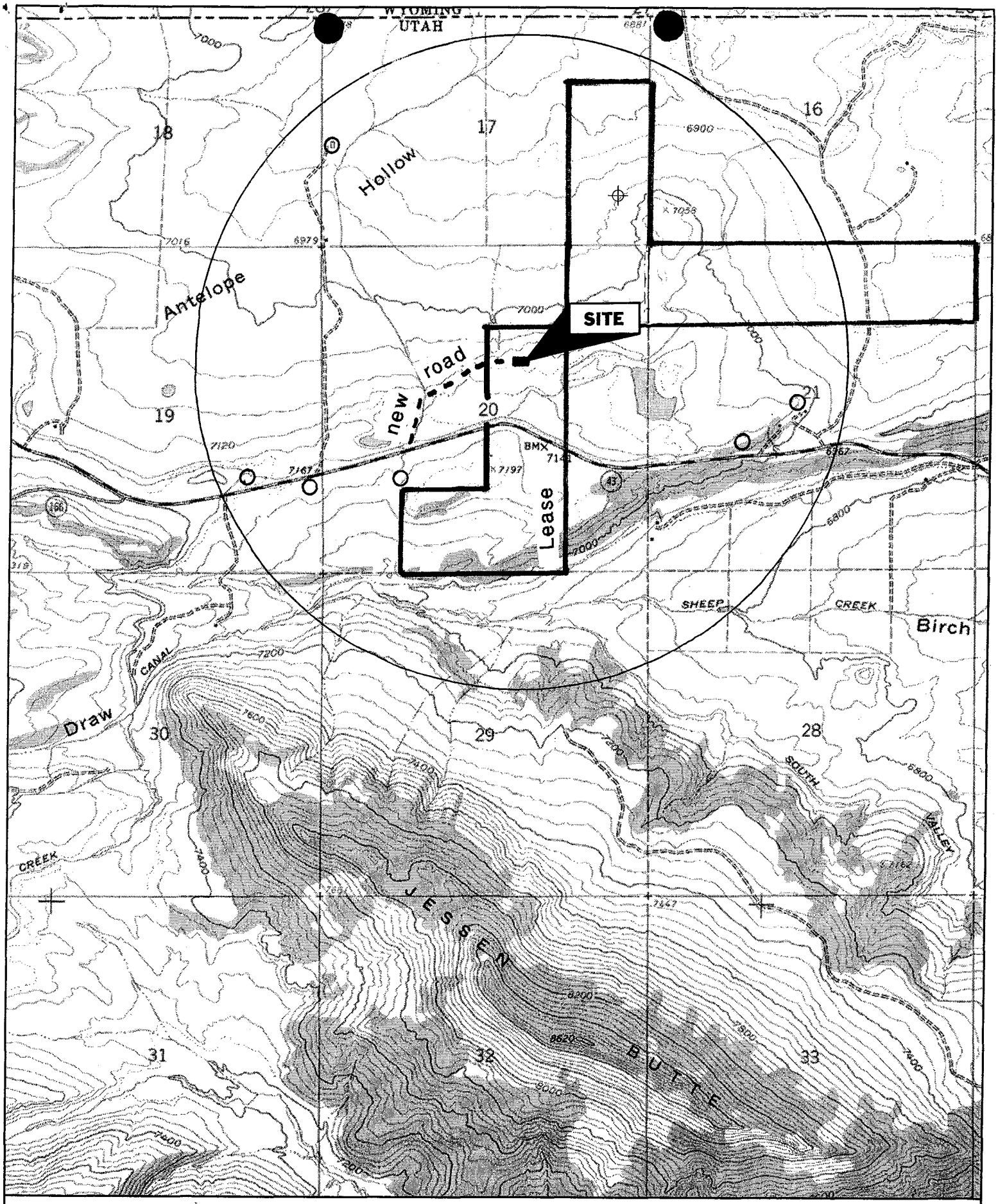
PATRICIA A. CHAMPION
Notary Public, State of Texas
My Commission Expires
February 22, 2006

Patricia A. Champion
Notary Public
State of Texas

My commission expires:

2-22-2006





Name: JESSEN BUTTE
Date: 11/10/2004
Scale: 1 inch equals 2000 feet

Location: 040.9717544° N 109.8079907° W
Caption: 20, 3N-19E

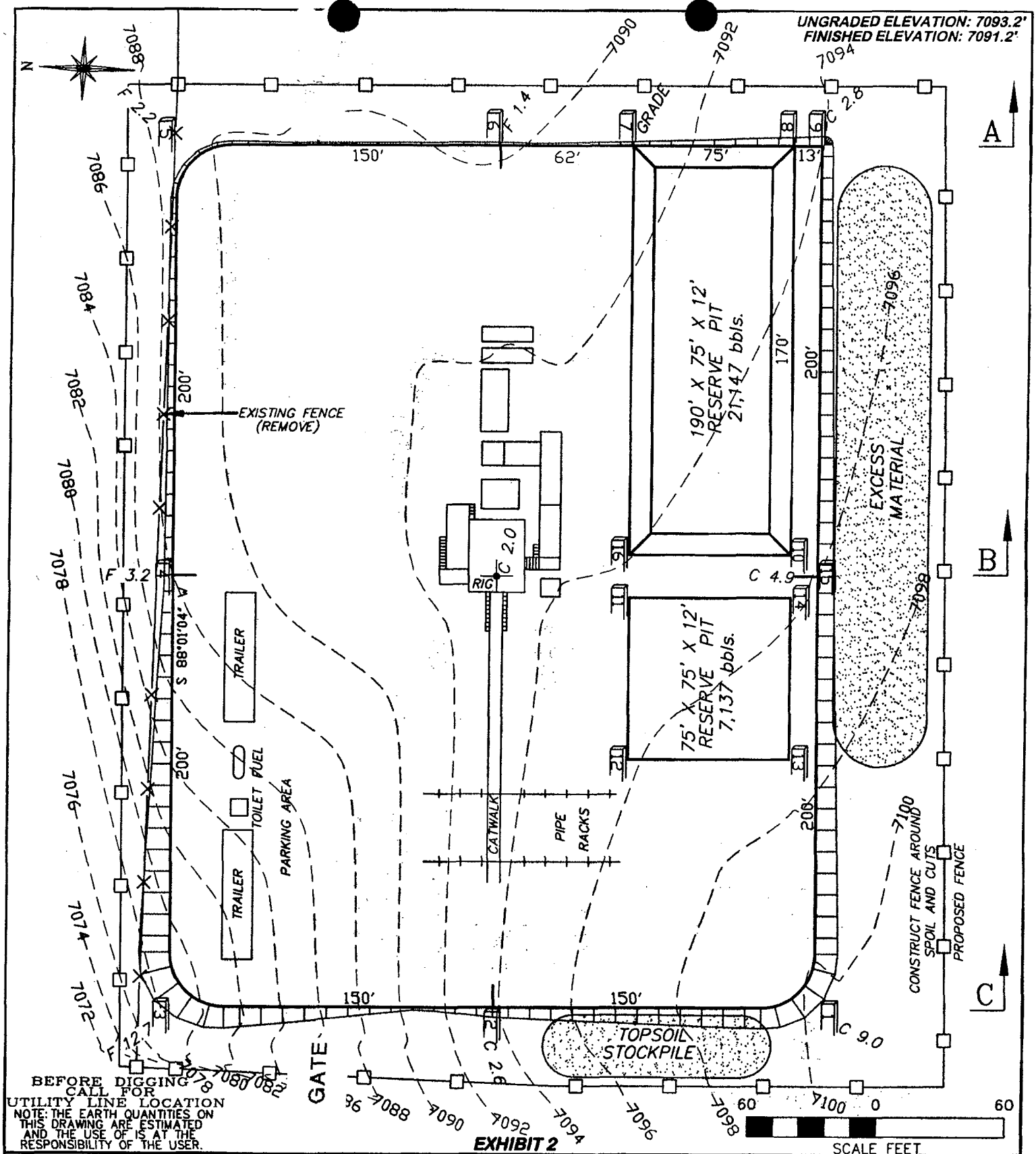


EXHIBIT 2

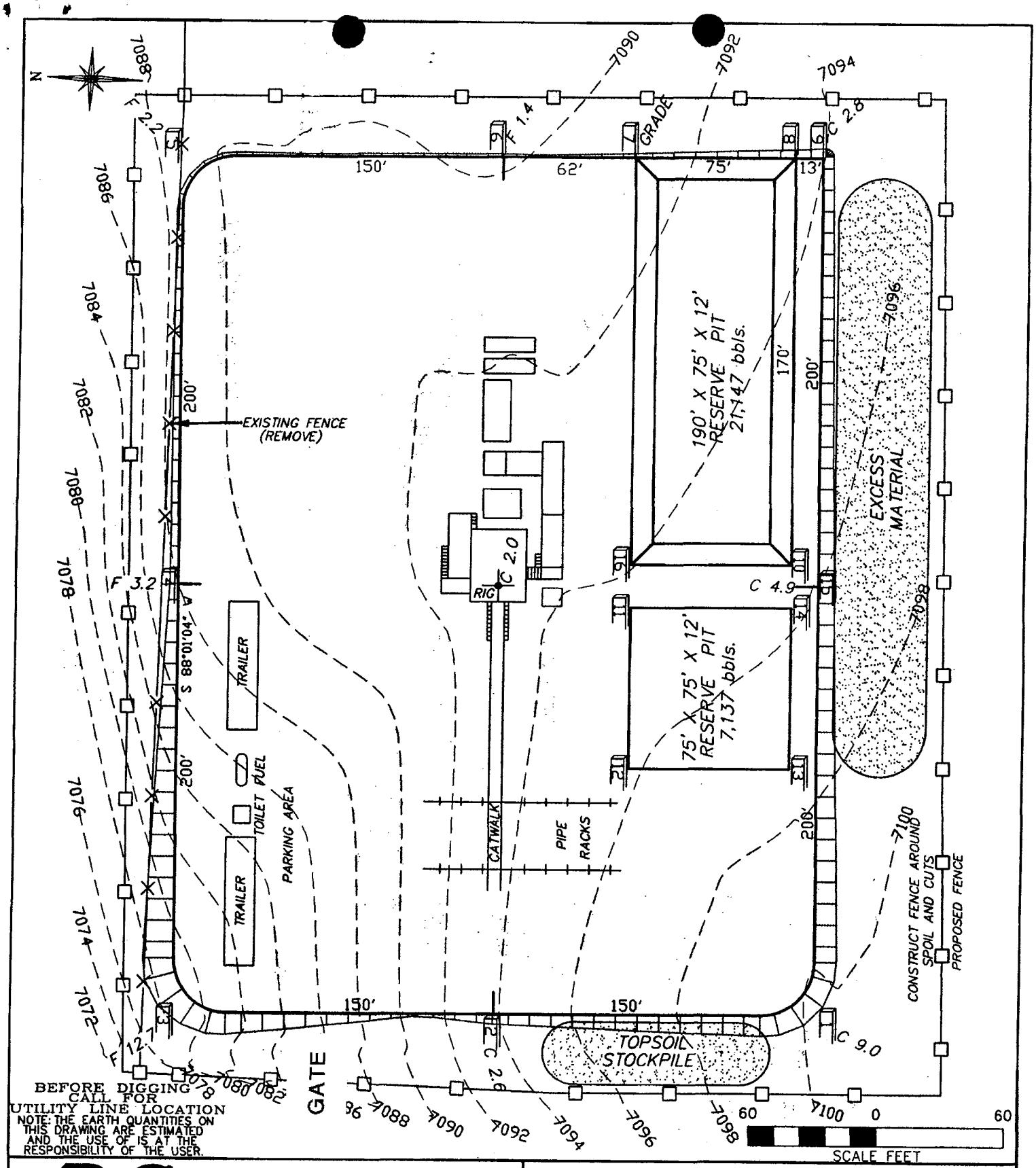
GRIFFIN & ASSOCIATES, INC.

1414 ELK ST., SUITE 202
ROCK SPRINGS, WY 82901
(307) 362-5028

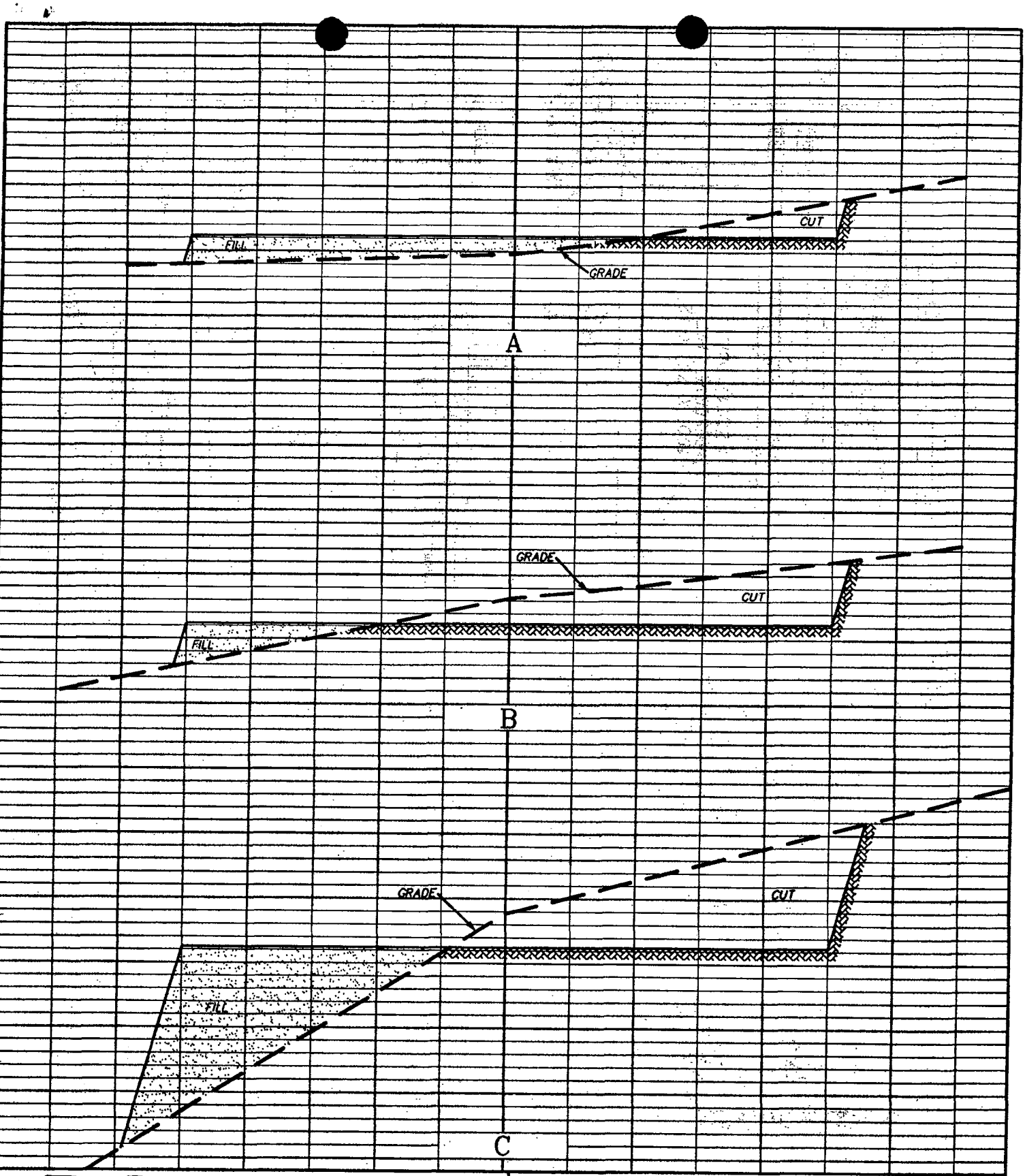
SCALE: 1" = 60'
JOB No. 11910
DATE: 11/29/04

NOBLE ENERGY, INC.
ANTELOPE HOLLOW STATE 32-20
ESTIMATED EARTHWORK

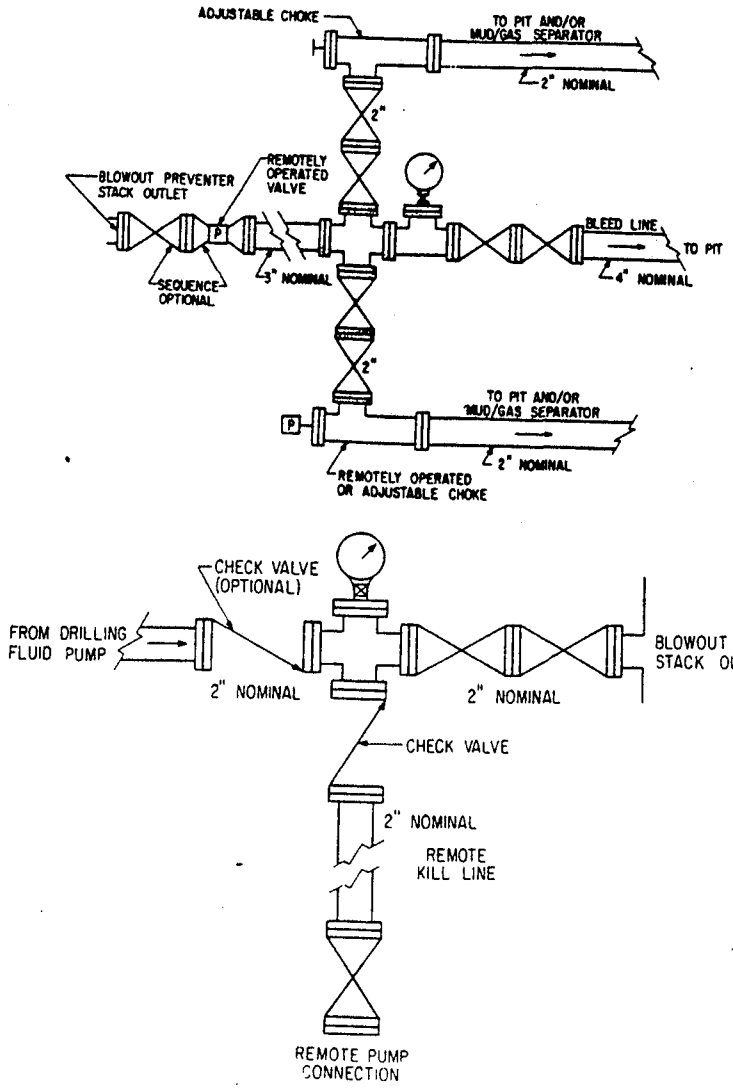
ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	5540 CY	5453 CY	2223 CY	2310 CY
PIT	4463 CY			4463 CY
TOTALS	10003 CY	5453 CY	2223 CY	6773 CY

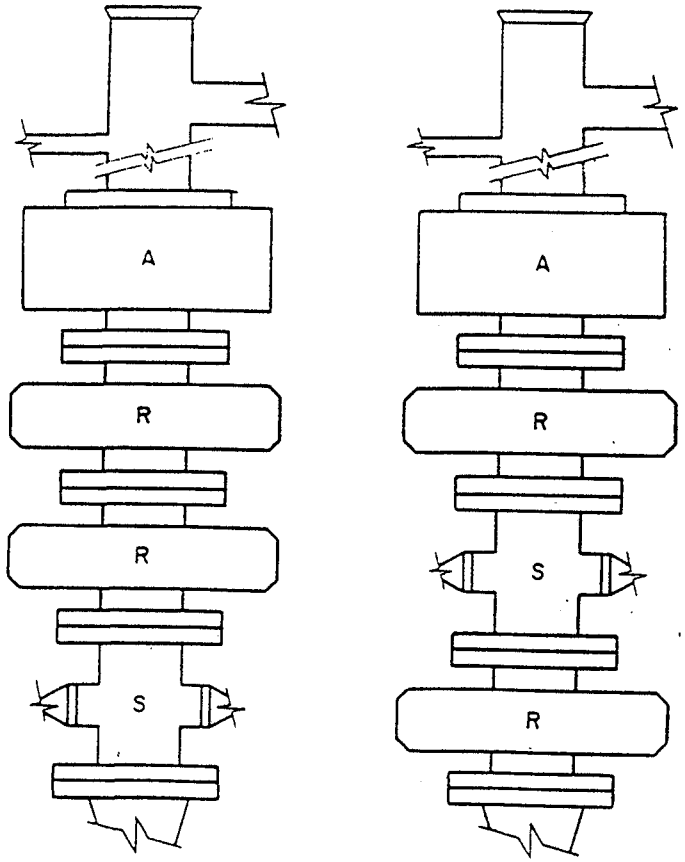


GRIFFIN & ASSOCIATES, INC.	***NOBLE ENERGY, INC.*** ***ANTELOPE HOLLOW STATE 32-20***
1414 ELK ST., SUITE 202 ***ROCK SPRINGS, WY 82901*** ***(307) 362-5028***	***JOB No. 11910*** ***DATE: 11/29/04***	***SCALE: 1" = 60'*** ***EXHIBIT 2A***



GRIFFIN & ASSOCIATES, INC.		NOBLE ENERGY, INC. ANTELOPE HOLLOW STATE 32-20	
1414 ELK ST., SUITE 202 ROCK SPRINGS, WY 82901 (307) 362-5028	JOB No. 11910	HORZ. 1" = 60' VERT. 1" = 10'	
	DATE: 11/29/04	UNGRADED ELEVATION: 7083.2' FINISHED ELEVATION: 7091.2'	EXHIBIT 3

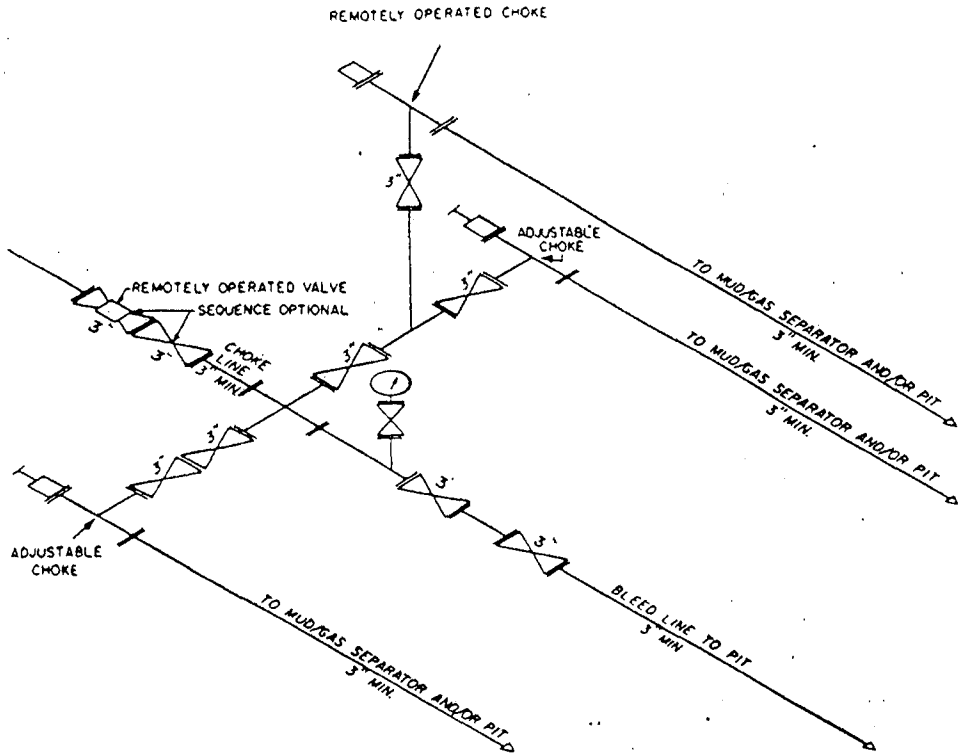




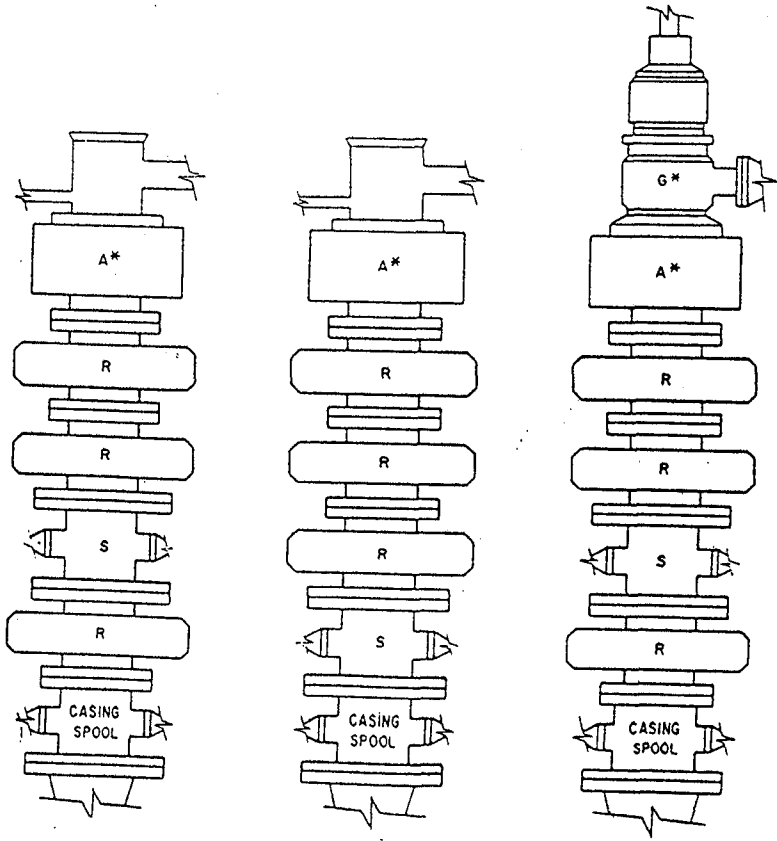
TYPICAL 5,000 psi WORKING PRESSURE BOP STACKS

A = Annular type blowout preventer
R = Ram
S = Drilling spool with side outlet connections for choke & kill lines

PERMITS WEST, INC.



10M AND 15M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY



TYPICAL 10,000 psi WORKING PRESSURE BOP ARRANGEMENTS

A = Annualer type blowout preventer G = Rotating Head R = Ram
S = Drilling spool with side outlet connections for choke & kill lines

003

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/06/2004

API NO. ASSIGNED: 43-009-30065

WELL NAME: ANTELOPE HOLLOW ST 32-20
OPERATOR: NOBLE ENERGY INC (N2345)
CONTACT: BRIAN WOOD

PHONE NUMBER: 505-466-8120

PROPOSED LOCATION:
SWNE 20 030N 190E
SURFACE: 1844 FNL 2046 FEL
BOTTOM: 1844 FNL 2046 FEL
DAGGETT
WILDCAT (1)

LEASE TYPE: 3 - State
LEASE NUMBER: ML-47543
SURFACE OWNER: 4 - Fee
PROPOSED FORMATION: MRSN
COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	12/28/04
Geology		
Surface		

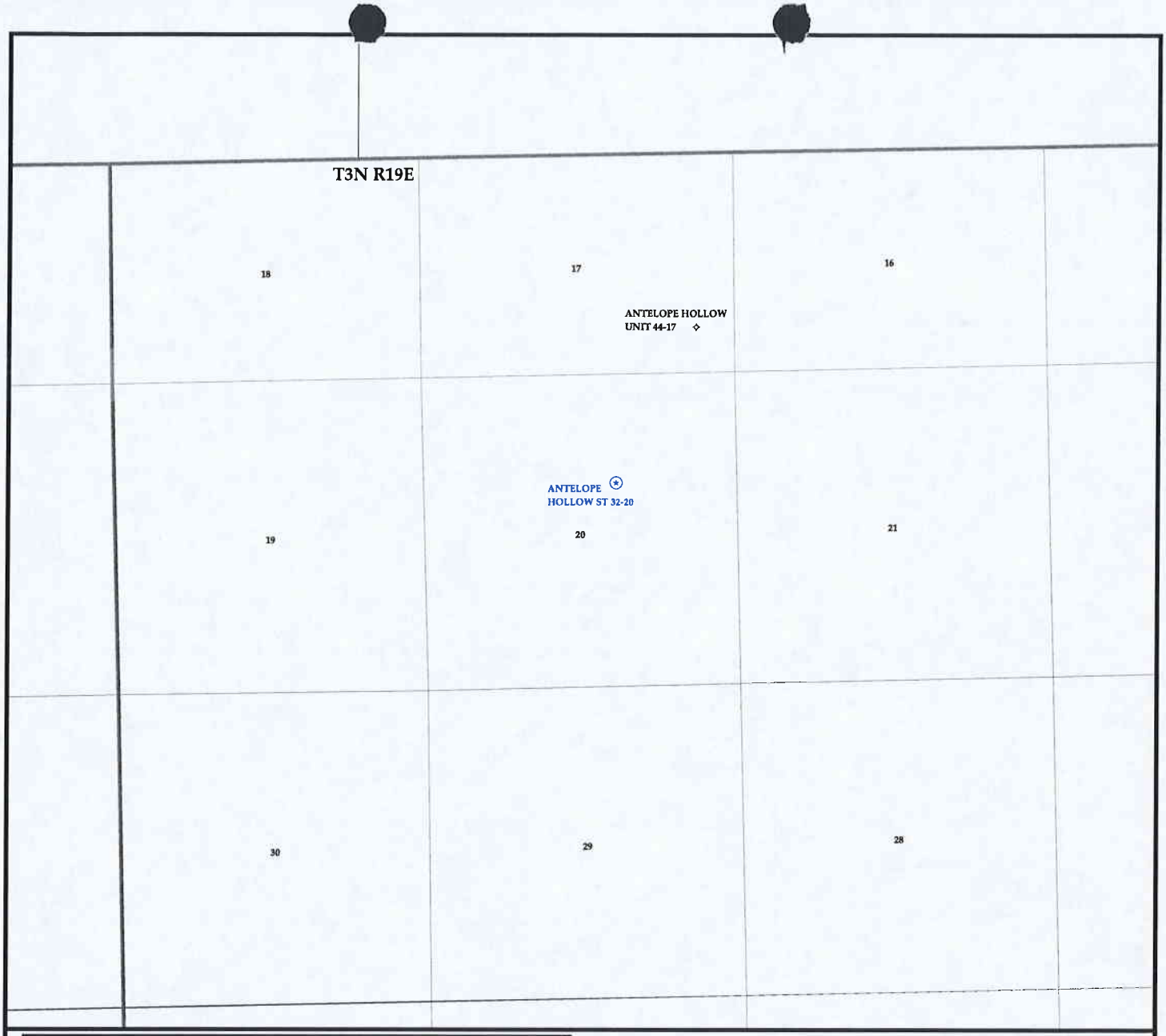
LATITUDE: 40.98264
LONGITUDE: -109.8061

RECEIVED AND/OR REVIEWED:
- ✓ Plat
- ✓ Bond: Fed[] Ind[] Sta[] Fee[] (No. 103103458)
- N Potash (Y/N)
- N Oil Shale 190-5 (B) or 190-3 or 190-13
- ✓ Water Permit (No. 41-3160)
- _____ RDCC Review (Y/N) (Date: 12/22/2004)
- Y Fee Surf Agreement (Y)N)

LOCATION AND SITING:
- ____ R649-2-3.
  Unit _____
- ✓ R649-3-2. General
  Siting: 460 From Qtr/Qtr & 920' Between Wells
- ____ R649-3-3. Exception
- ____ Drilling Unit
  Board Cause No: _____
  Eff Date: _____
  Siting: _____
- ____ R649-3-11. Directional Drill

COMMENTS: Needs Presite (Rec'd 12-16-04)

STIPULATIONS: 1- Spacing Stip
2- In accordance with R649-3-7-4, the 13 3/8" Surface Casing shall be tested to 2100 psi and the 9 5/8" Intermediate Casing shall be tested to 5700 psi.
3. STATEMENT OF BASIS



OPERATOR: NOBLE ENERGY INC (N2345)

SEC. 20 T.3N R.19E

FIELD: WILDCAT (001)

COUNTY: DAGGETT

SPACING: R649-3-2 / GENERAL SITING

Utah Oil Gas and Mining

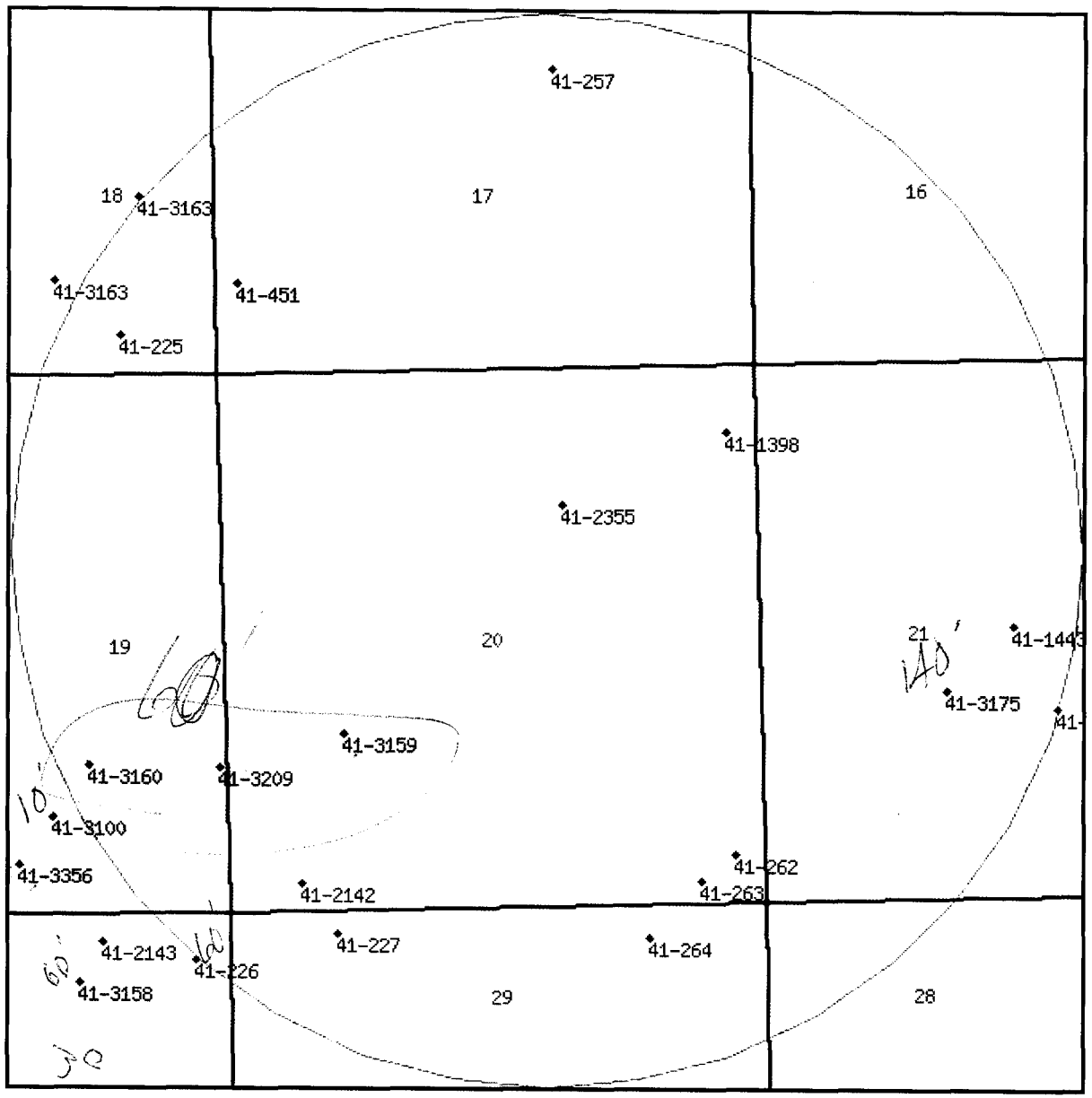
Wells
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

Units.shp
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields.shp
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

N
W E
S

PREPARED BY: DIANA WHITNEY
DATE: 7-DECEMBER-2004



Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
41-1398	Surface S660 W280 NE 20 3N 19E SL		P	1896	IS	0.110	0.000	CIRCLE BAR RANCH MANILA UT 84046
41-1443	Underground N80 E2485 W4 21 3N 19E SL		P	19300000	DS	0.011	0.000	BRANSON B. & EVELYN G. NEFF 2516 EVERGREEN AVENUE
41-2142	Surface N295 E680 SW 20 3N 19E SL		P	1896	IS	0.500	0.000	CIRCLE BAR RANCH MANILA UT 84046
41-2143	Surface S290 W1270 NE 30 3N 19E SL		P	18960300	IS	0.500	0.000	CIRCLE BAR RANCH MANILA UT 84046
41-225	Surface N380 W960 SE 18 3N 19E SL		P	18960000	IS	2.000	0.000	CIRCLE BAR RANCH MANILA UT 84046
41-226	Surface S450 W360 NE 30 3N 19E SL		P	18960300	DIS	0.500	0.000	SHEEP CREEK IRRIGATION COMPANY C/O ALBERT NEFF
41-227	Surface S200 E1035 NW 29 3N 19E SL		P	18960000	DIS	0.200	0.000	SHEEP CREEK IRRIGATION COMPANY C/O ALBERT NEFF
41-2355	Surface S1320 E745 N4 20 3N 19E SL		P	18960300	IS	0.250	0.000	CIRCLE BAR RANCH MANILA UT 84046
41-257	Surface N1040 W1990 E4		P	18960000	IS	2.000	0.000	CIRCLE BAR RANCH

Waters that will be used for stalling maybe

	17 3N 19E SL					A UTAH CORPORATION
41-262	Surface		P	18960300 DIS	0.100 0.000	FORREST D. PALLESEN FAMILY LIVING TRUST
	N470 W320 SE 20 3N 19E SL					UT
41-263	Surface		P	18960300 IS	0.004 0.000	FORREST D. PALLESEN FAMILY LIVING TRUST
	N205 W660 SE 20 3N 19E SL					UT
41-264	Surface		P	18960300 IS	0.112 0.000	FORREST D. PALLESEN FAMILY LIVING TRUST
	S355 W1160 NE 29 3N 19E SL					UT
41-3090	Surface		U	19650603 DS	0.100 0.000	WILLIAM AND AGNES BRIGGS
	N1850 E200 S4 21 3N 19E SL					MANILA UT 84046
41-3100	Underground	well info	P	19660506 DI	0.015 0.000	CIRCLE BAR RANCH
	N1000 E850 S4 19 3N 19E SL					MANILA, UT 84046
41-3158	Underground		P	19691209 DIS	0.033 0.000	CIRCLE BAR RANCH
	S650 E1120 N4 30 3N 19E SL					MANILA UT 84046
41-3159	Underground		P	19691209 DIS	0.015 0.000	CIRCLE BAR RANCH
	S3520 E1250 NW 20 3N 19E SL					MANILA UT 84046
41-3160	Underground		P	19691209 DIS	0.015 0.000	CIRCLE BAR RANCH
	S3830 W1250 NE 19 3N 19E SL					MANILA UT 84046
41-3163	Surface		P	18790000 IS	0.750 0.000	CIRCLE BAR RANCH

	N920 W1600 SE 18 3N 19E SL				MANILA UT 84046
41-3163	Surface	P	18790000 IS	0.750 0.000	CIRCLE BAR RANCH
	N1745 W775 SE 18 3N 19E SL				MANILA UT 84046
41-3175	Underground well info	P	19720622 DIS	0.015 0.000	K. A. & BEULAH E. TURNER
	N2090 E1760 SW 21 3N 19E SL				BOX 155
41-3209	Underground	P	19740129 DIS	0.015 0.000	CIRCLE BAR RANCH
	S1205 W50 E4 19 3N 19E SL				MANILA UT 84046
41-3356	Underground	A	19841226 DIS	0.015 0.000	JOSEPH F. & LETA O. WAHLQUIST
	N520 E520 S4 19 3N 19E SL				CIRCLE BAR RANCH
41-451	Underground	P	19300000 S	0.015 0.000	CIRCLE BAR RANCH
	S960 E225 W4 17 3N 19E SL				MANILA UT 84046

UTAH DIVISION OF WATER RIGHTS

WRPLAT Program Output Listing

Version: 2004.11.16.00 Rundate: 12/15/2004 04:03 PM

Radius search of 5280 feet from a point S1844 W2046 from the NE corner, section 20, Township 3N, Range 19E, SL b&m Criteria:wrtypes=W,C,E podtypes=S,U,D,Sp,P status=U,A,P usetypes=all

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: Noble Energy, Inc.
WELL NAME & NUMBER: Antelope Hollow State 32-20
API NUMBER: 43-009-30065
LEASE: State (ML-47543) **FIELD/UNIT**: Wildcat
LOCATION: **1/4,1/4** SWNE **Sec**: 20 **TWP**: 3N **RNG**: 19E 1844' FNL 2046' FEL
LEGAL WELL SITING: 460 F **SEC. LINE**; 460 F **1/4,1/4 LINE**; 920 F **ANOTHER WELL**
GPS COORD (UTM): GIS:X=600,440 E; Y=4,537,304 N;GPS:X=600,445E; Y=4,537,309N
SURFACE OWNER: George Olson, Circle Bar Ranch, Circle Bar Ranch Rd., Manila, UT

PARTICIPANTS

C. Kierst(DOGM), George Olson (Surface Owner), Brian Wood (Permits West), Joe Wahlquist (Daggett County), Jim Howell (with GSM representing Noble Energy) and several dirt contractors wanting to bid the job. Ed Bonner of SITLA was unable to attend owing to other conflicting onsite review commitments.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

The proposed location is on property owned by George Olson, owner of the Circle Bar Ranch, located ~4½ miles west of Manila, Daggett County, Utah. The South Valley Canal system is within 600 feet to the south. The local terrain drains and slopes to the north into Wyoming and the Henry's Fork River via the Antelope Wash drainage. Within about ten miles the Henry's Fork River drains eastwardly into the Henry's Fork arm of Flaming Gorge Reservoir in the Flaming Gorge National Recreation Area (Green River drainage). The location is on the north flank of the Uinta Mountains and appears to be just north of the north flank fault system. Precambrian rocks of the Uinta Mountains are about 4½ miles south. It is near the southernmost extreme of the Green River Basin in an area called the Bridger Basin (subbasin?). The local area is ranch pasture in a broad sagebrush/pasture draw called Antelope Hollow that is at an elevation of about 7,000 feet.

SURFACE USE PLAN

CURRENT SURFACE USE: Irrigated pasture grazing and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 300' X 400' pad with inboard 190'X75'X12' pit. Cut and fill margins will expand the pad area slightly and there will be sufficient room for topsoil and pit material storage along the south and west edges of the location. Half a mile of new access road will be built. A 48" culvert will be installed to cross an ~10' deep drainage about 1,700' west of the pad.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 1 PA well (4300930064) exists within a 1 mile radius of the above proposed well.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Bermed production facilities will be placed on the cut portion of the pad. Gas pipelines

will have to be run to the north off the pad more or less down Antelope hollow.

SOURCE OF CONSTRUCTION MATERIAL: Gravel will be purchased from the permitted Harper pit about 3½ miles to the southwest. Fill material will come from an area on the Circle Bar Ranch itself.

ANCILLARY FACILITIES: N/A

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into an approved sewage disposal facility; garbage cans on location will be emptied into trash cages that be emptied into an approved landfill. Crude oil production will be placed in test tanks on location. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing of the pit liner. Used oil from drilling operations and support will be hauled to an approved used oil recycler.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: The immediate area is on a terrace or low prominence between two draws, Antelope Hollow, which opens to the north, and Birch Spring Draw, which opens to the east. Birch Spring Draw feeds into Flaming Gorge Reservoir within 10 miles. This area may be a recharge area. There are several ponds nearby and the location is situated between two that are about ½ mile distant. The South Valley Canal flows by within 1,000' to the south. The Jessen Butte topographic quadrangle depicts that several nearby small drainages also flow into the canal. One such drainage (a canal) contains live water (landowner says it's seepage not canal flow) and is about 500' to the south-southeast. The area most likely receives considerable inputs of high quality Uinta Mountains snowmelt water and the Bridger, Laney, New Fork and Fort Union aquifers in particular are likely to contain significant volumes of high quality water. Another drainage ~ 1,700' west of the location with flowing water in it may be a drainage ditch that flows to the bottomland for irrigation/livestock watering. The access road will cross the drainage and will use a 48" culvert to effect a crossing. Bob Leake of Division of Water Right's Vernal, Utah, office says the area south of the dogleg in the drainage is a drainage ditch rather than a natural drainage and therefore doesn't require a 404 Dredge & Fill Permit for the access road crossing.

FLORA/FAUNA: Sagebrush, native grass, cottonwood, willows, antelope, elk, deer, coyote, various fowl and small game.

SOIL TYPE AND CHARACTERISTICS: Moderately permeable sandy soil.

SURFACE FORMATION & CHARACTERISTICS: The Bridger Formation is exposed at the surface in the area, frequently with a thin soil cover on terraces and bottoms. The Tertiary, late Eocene age Bridger Formation is generally described as mudstone interbedded with crossbedded, tuffaceous mudstone although it may be locally conglomeratic (and sandy) in the southern part of the Green River Basin (such as this location). The Bridger Formation is identified as an aquifer geohydraulic unit by the

USGS.

EROSION/SEDIMENTATION/STABILITY: This area is not highly eroded or prone to bank instability. The worst slopes on the location present about 15' of elevation in 250' of surface (~6% grade), although the location is adjacent to a steeper terrace sloping to the north.

PALEONTOLOGICAL POTENTIAL: None observed

RESERVE PIT

CHARACTERISTICS: Dugout earthen pit. 190' X 75' X 12'(As per APD.)

LINER REQUIREMENTS (Site Ranking Form attached): Synthetic liner required. (As per APD.)

SURFACE RESTORATION/RECLAMATION PLAN

As per surface use agreement.

SURFACE AGREEMENT: Surface use agreement has been signed.

CULTURAL RESOURCES/ARCHAEOLOGY: None required by surface owner.

OTHER OBSERVATIONS/COMMENTS

Unit Drilling will be the drilling contractor. A diversion ditch will be placed on the south and west sides of the pad. The access road will enter the pad near the northwest corner at about the zero cut and fill point. A culvert will be placed where it crosses the diversion ditch. A 48" culvert will be installed to cross an ~10' deep drainage about 1,700' west of the pad. The operator will obtain his drilling water from George Olson's ranch water . The operator has a statewide surety blanket bond in place for plugging in the amount of $120,000.

ATTACHMENTS

5 photos of this location were taken and will be placed on file.

Christopher J. Kierst	12/16/2004 / 12:30 PM
DOGM REPRESENTATIVE	DATE/TIME

Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements

Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	15
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	2
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	0
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	0
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	10
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid containing significant levels of hazardous constituents	15 20	15
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	10
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	10
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	6
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	0

Final Score 68 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.

DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS

OPERATOR: Noble Energy, Inc.
WELL NAME & NUMBER: Antelope Hollow State 32-20
API NUMBER: 43-009-30065
LEASE: State FIELD/UNIT: none
LOCATION: 1/4,1/4 SWNE Sec: 20 TWP: 3N RNG: 19E 1844' FNL 2046' FEL

Geology/Ground Water:
Significant volumes of high quality ground water are likely to be encountered at this location. A moderately permeable soil is likely to be developed on the Tertiary, late Eocene Bridger Formation in the area. Several nearby water supply wells that are documented in the Division of Water Rights database reveal that the water table was encountered between 10 and 140 feet of depth, most likely in the Bridger Formation. Mr. Olson, the landowner, related that it is common for wells in the area to have static water levels around 60' below ground level. No published base of moderately saline ground water information is available in this area. It is likely that there are several thousands of feet of high quality ground water saturated strata owing to the proximity of the area to the Uinta Mountains and the purported aquifer status of the near surface strata. The proposed drilling, casing and cementing program should adequately isolate any zones of fresh water that may be penetrated. Included among the several water rights filed within a mile of the location are six subsurface water rights for water supply wells, most of which are operated by the surface owner.

Reviewer: Christopher J. Kierst **Date**: 12/17/2004

Surface:
The proposed location is on property owned by the Olson Family, operators of the Circle Bar Ranch, which is located ~4½ miles west of Manila, Daggett County, Utah. The unnamed drainage about 1,600' west of the flag was observed to contain flowing water. This drainage will receive a 48" culvert and require a 404 Dredge and Fill Permit for the access road crossing. The surface immediately surrounding this location drains north to the Henry's Fork River. Precipitation will be deflected around the location with a diversion ditch on the south and west sides , berms and culverts. The site will be fenced completely around the location. The site was photographed and characterized during the onsite review. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. The well utilities and gas gathering system will follow the approach roadway. Attendance the on-site was George Olson representing the Circle Bar Ranch and Joe Wahlquist representing Daggett County.

Reviewer: Christopher J. Kierst **Date**: 12/17/2004

Conditions of Approval/Application for Permit to Drill:

1. Culverts sufficient to manage expected runoff, standing and surface water in crossed drainages.
2. Berm location and pit.
3. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

STATE ACTIONS
Resource Development Coordinating Committee
Governor's Office of Planning and Budget
5110 State Office Building
SLC, UT 84114
Phone No. 537-9230

1. State Agency	**2. Approximate date project will start:**
Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	Upon Approval or December 21, 2004

3. Title of proposed action:
Application for Permit to Drill

4. Description of Project:

Noble Energy, Inc. proposes to drill the Antelope Hollow State 32-20 well (wildcat) on State lease ML-47543, Daggett County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.

5. Location and detailed map of land affected (site location map required, electronic GIS map preferred).
(include UTM coordinates where possible) **(indicate county)**
1844' FNL 2046' FEL, SW/4 NE/4,
Section 20, Township 3 North, Range 19 East, Daggett County, Utah

6. Possible significant impacts likely to occur:
Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.

7. Identify local government affected
a. Has the government been contacted? No.
b. When?
c. What was the response?
d. If no response, how is the local government(s) likely to be impacted?

8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable:
a. Has the representative and senator been contacted? N/A

9. Areawide clearinghouse(s) receiving state action: (to be sent out by agency in block 1)
Uintah Basin Association of Governments

10. For further information, contact:	**11. Signature and title of authorized officer**
Diana Whitney **Phone:** (801) 538-5312	John R. Baza, Associate Director **Date:** December 7, 2004

Well name:	**12-04 Noble Energy Antelope Hollow St 32-20**
Operator:	**Noble Energy Inc.**
String type:	Surface
Project ID:	43-009-30065
Location:	Dagget County

Design parameters:

Collapse

Mud weight: 8.300 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,760 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 2,000 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on buoyed weight.

Neutral point: 1,752 ft

Environment:

H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	103 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	250 ft
Cement top:	Surface

Non-directional string.

Re subsequent strings:

Next setting depth:	10,000 ft
Next mud weight:	8.900 ppg
Next setting BHP:	4,623 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	2,000 ft
Injection pressure	2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	2000	13.375	61.00	J-55	Buttress	2000	2000	12.39	242.8

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	862	1540	1.786	2000	3090	1.55	107	962	9.00 B

Prepared by: Clinton Dworshak, Utah Div. of Oil & Mining

Phone: 801-538-5280

FAX: 801-359-3940

Date: December 23,2004

Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.3 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**12-04 Noble Energy Antelope Hollow St 32-20**
Operator:	**Noble Energy Inc.**
String type:	Intermediate
Project ID:	43-009-30065
Location:	Dagget County

Design parameters:

Collapse

Mud weight: 8.900 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 8,800 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 10,000 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on buoyed weight.
Neutral point: 8,665 ft

Environment:

H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	215 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,500 ft
Cement top:	7,824 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	18,500 ft
Next mud weight:	12.000 ppg
Next setting BHP:	11,532 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	10,000 ft
Injection pressure	10,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	10000	9.625	47.00	S-95	LT&C	10000	10000	8.625	942.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4623	7100	1.536	10000	8150	0.81	407	1053	2.59 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining
Phone: 801-538-5280
FAX: 801-359-3940
Date: December 23,2004
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 10000 ft, a mud weight of 8.9 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	**12-04 Noble Energy Antelope Hollow St 32-20**
Operator:	**Noble Energy Inc.**
String type:	Production
Project ID:	43-009-30065
Location:	Dagget County

Design parameters:

Collapse

Mud weight: 12.000 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 9,312 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 11,532 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 15,176 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 334 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 8,828 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	18500	5.5	23.00	P-110	LT&C	18500	18500	4.545	851.7

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	11532	14540	1.261	11532	13580	1.18	349	643	1.84 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining
Phone: 801-538-5280
FAX: 801-359-3940
Date: December 23,2004
Salt Lake City, Utah

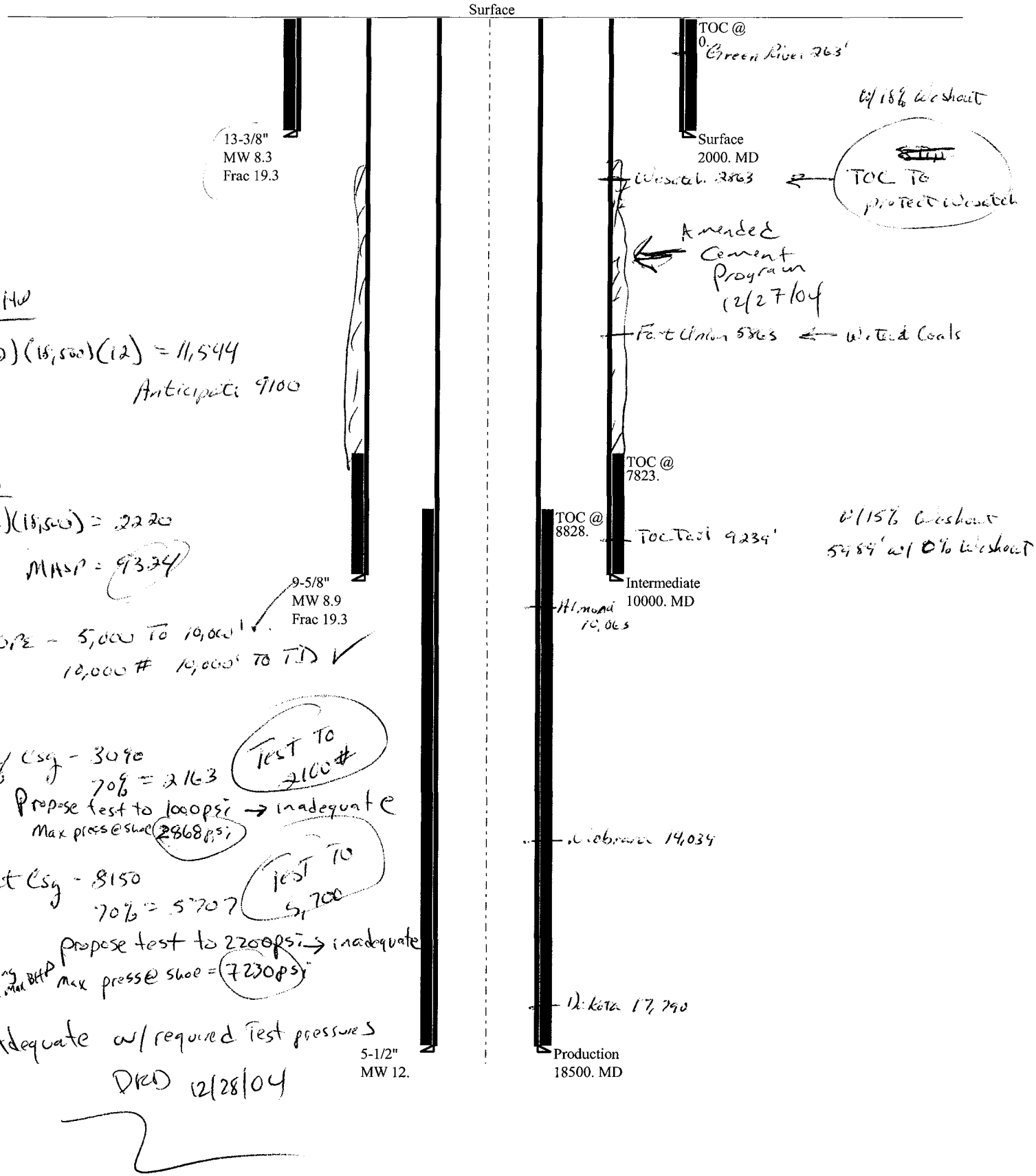
Remarks:
Collapse is based on a vertical depth of 18500 ft, a mud weight of 12 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

12[illegible]4 Noble Energy Antelope Ho[illegible]ow St 32-20

Casing Schematic



BHP

(.052)(18,500)(12) = 11,544

Anticipate 9100

Gas

(.12)(18,500) = 2220

MASP = 9324

Bope - 5,000 To 10,000 ✓

10,000 # 10,000' To TD ✓

Surf Csg - 3090

70% = 2163

Propose test to 1000psi → inadequate

Max press @ shoe 2868psi

Test To 2100 #

Int Csg - 8150

70% = 5707

Propose test to 2200psi → inadequate

Using Max BHP Max press @ shoe = 7230psi

Test To 5,700

Adequate w/ required Test pressures

DKD 12/28/04

12/15% washout

5484' w/ 10% washout

12/18% washout

Project Number: 4726 Sponsor: Division of Oil, Gas and Mining
SLB&M: Sec. 20, T3N, R19E Counties Affected: Daggett
Description: Application for Permit to Drill - proposal to drill a wildcat well, the Antelope Hollow State 32-30 on State lease ML-47543
Comments Due to Sponsor 12/23/2004

Implementation of this project may involve considerable disturbances and alterations to the existing environment. To minimize the possible negative impacts, the leasor should be required to reduce negative environmental impacts of the project resulting from erosion and damage to vegetation and habitat.
These three provisions would include:

1- Restore vegetative cover to levels equal to or exceeding the cover existing prior to project activity, or to whatever levels are necessary to insure erosion rates from the total disturbed area are maintained below the NRCS tolerable soil loss rates.. Vegetation planted or restored should be primarily native species and must not include any invasive species.
2- Project roadways, pads, drilling sites, pipeline placements and all other ground disturbing activities should be designed, engineered, and implemented to minimize crossing of or disturbance to streams, washes, gullies, arroyos, or other depressions or sites where resulting erosion potential would be high.
3- Roads installed or maintained for the project should be constructed in accord with the road hydrostrip standards adopted and required for use within the BLM Price, Utah Office Management area. These Hydrologic Modification Standards for Roads significantly reduce problematic erosion and gullying. Although adherence to the standards initially requires some slightly higher installation costs, the long term costs of maintenance, upkeep, and of roads made impassable under adverse conditions is reduced so significantly as to provide very strong financial benefits to their implementation, in addition to the environmental benefits.

These Price Field Office Hydrologic Modification Standards for Roads are copied below.

Price Field Office
Hydrologic Modification Standards for Roads

K. Flood – Hydrologist
Updated October 14, 2003

I. Surface Water Channel Crossing Criteria:

(1) Crossings which require a CWA-404 or GP-40 channel alteration permit, as determined by the Utah Division of Water Rights, are to be engineered if they are part of a federal Right of Way permit application.

(2) Channel crossings requiring culverts with individual or cumulative diameters of 30 inches or greater are to be engineered, and sized to the 25 year, 6 hour event at a minimum.

A. The commonly used sizing equations for culverts or other flow conveyances might not be reliable if there are no local precipitation stations from which to obtain accurate values. Isohyets are generated from available data. Often, the isohyet values given for remote areas have large errors associated with them. In such cases, run-off and stream flows should be obtained from hydrographs if available, measured directly if possible, or estimated based on channel dimension measurements.

(3) Wherever possible, roads should be aligned perpendicular to channels at crossings.

(4) Crossings on perennial channels which require structures or channel modification, including bank disturbance, are to be engineered. Crossings on intermittent and ephemeral channels may require engineering on a case by case basis.

(5) Culverts should connect a channel at existing points on both sides of the road. Realignment of channels is strongly discouraged. If realignment is the only option, engineering shall be done to ensure channel parameters are preserved as described in I. (6) A, B, and C.

(6) Engineered designs will ensure that crossings do not cause changes to the existing channel parameters as follows:

A. Cross Sectional Dimensions: Changes to the cross sectional dimensions of a channel destabilize streams. An altered channel often undergoes a series of undesirable changes before restabilizing. Significant widening and downcutting can occur, followed by the formation of a new channel within the widened area. This process results in significant soil loss, degrading water quality. Local ground water levels are often lowered, which can cause changes in vegetation.

1. width, as measured at bankfull level: Factors which influence width are:

a. flow velocity: Velocity of flow exiting the crossing must equal velocity of flow entering the crossing. Where culverts are used, a >V= shaped flow guide (i.e., wing walls) should be installed at the inlet. At the outlet, a >U= shaped guide should be used to return flow to the original width, depth, and velocity. Also see criteria I. (6) A. 1. d. and I. (6) A. 2. b.

b. flow magnitude: Avoid changes in flow magnitude within the channel. Where a flood plain is present, flows from the flood plain must not be converged with channel flow. Each flood plain must be reestablished at the crossing outlet, with flow discharged at the same velocity, width, and depth as found immediately upstream of the inlet. Where culverts are used, the flood plains should have individually sized culverts, and each must be properly placed. Combination culvert/low-water crossings may be used, allowing flood level flows to go over the road. The same principles apply, differences in flow velocity on the flood plains must be considered in crossing designs. See I. (6) A. 2. a. and I. (6) A. 2. b.

c. size and type of transported sediment: Avoid creating changes in sediment load via use of erosion controls during construction and by replacing vegetation as soon after construction as possible.

d. bed and bank materials: Introduced bed and/or bank materials should have a friction coefficient similar to that of the natural channel, except where specifically designed to adjust flow velocity, and must be installed so as to withstand high flows and floods without dislodging.

2. depth, as measured from thalwag to bankfull level: The practice of installing culverts at a slope less than the natural channel bed slope to adjust flow velocity should be discontinued if changes to channel depth are to be avoided. This would also serve to reduce head at the inlet which can occur from the flow velocity change caused by the difference in culvert slope and bed slope.

a. Culverts should generally be installed with approximately ten percent of the diameter below the channel bed, provided rock or concrete aprons are included at the inlet and outlet, each flush with the original bed surface. Unless the bed is armored, both the inlet and the outlet must be installed at the existing bed level. Exceptions to this may be prescribed to reverse a preexisting downcutting problem without incurring additional costs.

b. Adjust flow velocity using an energy dissipating rock apron at the outlet.

B. Stream Channel Patterns:

1. radius of curvature: The following equation gives a relationship for the radius of curvature of meander bends to meander length and sinuosity.

$$R = L_m K^{-1.5}) \ 13(K-1)^{0.5}$$

where: R = radius of curvature
L_m = meander length

K = sinuosity

and: $K = L_c \,) L_v$; which may be approximated by $m_v \,) m_c$

where: L_c = channel length
L_v = valley length
m_v = valley slope
m_c = channel slope

This relationship shows that parameters of a realignment can be made to mimic natural pattern geometry by adjusting channel slope and length within the realignment reach. It is necessary to design channel pattern changes (realignments) using the correct radius of curvature to avoid causing repercussions to the cross sectional dimensions. However, realignments should be made only if there are no alternatives. See I. (6) C. 1.

a. In cases where a channel must be realigned, the radius of curvature of the new alignment must equal the radius of curvature of the natural meander of the channel.

2. width/variable width, as a function of depth:

a. Width at bankfull of the new reach must equal width at bankfull of the original reach.

b. Banks must be contoured with the same slope as the original banks.

C. Stream Channel Profile:

1. slope of the channel bed: The bed slope is the single most sensitive physical parameter of a channel. When the bed slope changes, most or all other parameters of the pattern and cross sectional dimensions will change.

a. If possible, choose a crossing location low on the watershed, where the ground is relatively flat. See criteria I. (6) A. 2. a. and I. (6) A. 2. b.

2. pool-riffle ratio: At higher elevations in a watershed, the bed slope is generally greater and the channel is usually straighter (lower sinuosity). To compensate for low sinuosity, step pools and riffles develop at more frequent intervals. Pools occur where the bed slope is flatter, and riffles occur where the slope increases. Also, water seeps into the ground at pools, and discharges from the ground into the channel at riffles. If

structures are built on riffles, water seepage could cause extensive damage and present potential safety risks.

a. Cross channels at pools, not at riffles.
b. Where roads must cross at riffles, in-seepage of water must be addressed in the design.

II. Road Drainage Criteria: Roads which run perpendicular to hill slopes act as berms, capturing sheet flow from runoff and snowmelt and converting it into channel flow along the road. This diverts water from areas immediately downslope of the road, which can cause undesirable changes in vegetation. Ditches which are typically built along roads to transport this channelized runoff are often discharged at the nearest existing wash, stream channel or low point on the terrain. Where this discharge occurs at a channel crossing (usually the downstream side of the crossing) severe erosion frequently results. Channels are significantly widened below such crossings, appearing as blown out. See Criteria 1. (6) A. 1. b. Also, road ditches often create severe erosion gullies by headcutting back from the wash. Where roads run parallel to channels, ditched runoff is often discharged or turned-out toward the channel at low points along the road. This frequently results in erosive headcuts forming from the channel to the road. This erosion degrades water quality, can destabilize the receiving channel, often erodes the road surface, and can block access along a channel. The type of damage described can be minimized or prevented with little additional cost incurred.

(1) Road drainage flow should not be converged with existing channel flow.

(2) Ditch turnouts should be made along the road at locations where terrain is fairly level along the road, and which slopes gently away from the road.

(3) Turnouts should be equipped with gravel or rock aprons at each outlet. The apron should:

A. expand outward away from the outlet for a distance sufficient to disperse channel flow from the ditch back into sheet flow

B. reduce flow velocity enough to prevent rill formation.

(4) Turnouts should be placed as needed to avoid transfering water from one drainage basin or subbasin to another, and to effect as complete a return to the original flow regime as practical. Spacing criteria as specified in the Class III road standards used by the PFO are the minimum standard.

III. Miscellaneous Construction Phase Criteria:

(1) For activities which disturb one (1) or more acres, a Storm Water Pollution Prevention Plan (SWPPP) must be submitted to the Utah Department of Environmental Quality.

(2) The Best Management Practices (BMPs) set forth in the Utah Nonpoint Source Management Plan for Hydrologic Modifications, Appendix B., page 3 should be implemented as applicable.

(3) In the event construction can't be completed prior to winter closures, measures to prevent erosion from upcoming spring snowmelt should be taken as follows:

A. Loose earth and debris must be removed from drainages, and flood plains.

B. Earth and debris should not be stockpiled on drainage banks.

C. Road drainages should be checked to ensure there are none with uncontrolled outlets.

1. Be sure all ditch drainages have an outlet to prevent ponding.

2. If necessary, build temporary sediment ponds to capture runoff from unreclaimed areas.

3. Re-route ditches as needed to avoid channeling water through loosened soil.

From: Robert Clark
To: Whitney, Diana
Date: 12/15/2004 9:07:08 AM
Subject: Comments on Antelope Hollow State 32-20 Wildcat Well

The following comments are submitted from the Division of Air Qualitry regarding the Antelope Hollow State 32-20 Wildcat Well in Daggett County.

Comments begin: The proposed well drilling project may require a permit, known as an Approval Order, from the Utah Division of Air Quality if any compressor stations are operating at the site. A permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, SLC, UT, 84116 for review according to the Utah Air Conservation Rule R307-400, Permits, Notice of Intent and Approval Order.

The proposed project is also subject to Utah Air Conservation Rule R307-205-3, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Division of Air Quality, but steps need to be taken to minimize fugitive dust, such as, watering and/or chemical stabilization, providing vegetative or synthetic cover and windbreaks. A copy of the rules are found at www.rules.utah.gov/publicat/code/r307/r307.htm . **Comments end.**

CC: Dave Mcneill; Wright, Carolyn

004

State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

MARY ANN WRIGHT
Acting Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

December 28, 2004

Noble Energy, Inc
100 Glenborough
Houston, TX 77067-3610

Re: Antelope Hollow State 32-20 Well, 1844' FNL, 2046' FEL, SW NE, Sec. 20, T. 3 North, R. 19 East, Daggett County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-009-30065.

Sincerely,

(for) John R. Baza
Associate Director

pab
Enclosures

cc: Daggett County Assessor
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Operator: Noble Energy, Inc

Well Name & Number Antelope Hollow State 32-20

API Number: 43-009-30065

Lease: ML-47543

Location: SW NE **Sec.** 20 **T.** 3 North **R.** 19 East

Conditions of Approval

1. **General**
   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**
   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
   - 24 hours prior to cementing or testing casing
   - 24 hours prior to testing blowout prevention equipment
   - 24 hours prior to spudding the well
   - within 24 hours of any emergency changes made to the approved drilling program
   - prior to commencing operations to plug and abandon the well

   The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):
   - Dan Jarvis at (801) 538-5338
   - Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**
   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.

7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

8. In accordance with R649-3-7-4, the 13 3/8" surface casing shall be tested to 2100 psi and the 9 5/8" intermediate casing shall be tested to 5700 psi.

005

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **NOBLE ENERGY INC**

Well Name: **ANTELOPE HOLLOW ST 32-20**

Api No: **43-009-30065** Lease Type: **STATE**

Section **20** Township **03N** Range **19E** County **DAGGETT**

Drilling Contractor **PETE MARTIN'S** RIG # **BUCKET**

SPUDDED:

Date **01/09/05**

Time

How **DRY**

Drilling will commence:

Reported by **JIM HOWELL**

Telephone # **1-435-784-3564**

Date **02/02/2005** **Signed** **CHD**

RECEIVED

FEB 07 2005

DIV. OF OIL, GAS & MINING

FORM 6

006

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator: Noble Energy, Inc.

Operator Account Number: N-2345

Address: 100 Glenborough Dr., #100

city Houston

state Texas zip 77067

Phone Number: 281-874-6765

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-009-30065	Antelope Hollow State 32-20	SWNE	20	3N	19E	Daggett

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
A	99999	14556	02/02/2005	

Comments: Well Spud @8:00 p.m. 2/2/2005. Conductor set @ 100'. Encountered Fresh Water @ 60'. MRSN

K

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Patricia Jaenecke
Name (Please Print)

Signature

Sr. Reg. Specialist
Title

02/03/2005
Date

(5/2000)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	ML-47543
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
8. WELL NAME and NUMBER:	Antelope Hollow State 32-20
9. API NUMBER:	43-009-30065
10. FIELD AND POOL, OR WILDCAT:	Wildcat

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Noble Energy, Inc.

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067 PHONE NUMBER: (281) 874-6765

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL COUNTY: Daggett
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

02/02/2005 - Well Spud @8:00 p.m. 2/02/2005. Conductor set @ 100'. Encountered Fresh water @ 60'. Drilled to 244'.
02/03/2005 - Drilled to 603'. Circulated. Washed 45' to btm. Drill to 633'.
02/04/2005 - Drilled to 786'. Replaced swivel. Drilled to 1109'. Ran wireline survey @ 1022'. Drilled to 1184'.
02/05/2005 - Service rig. Drilled to 1587'. Ran wireline survey @1500'. Drilled to 1980'.
0206/2005 - Made wiper trip. Mix & pump Hi-Vis Sweep. RU Frank's Westate csg equipment. Ran 44 jts 13 3/8", 61#, J-55 BTC surface csg. RU BJ cementing head. RD Frank's. Cement surface csg.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 2/7/2005

(This space for State use only)

RECEIVED
FEB 10 2005
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

008

DOUBLE JACK TESTING & SERVICES/IPS
Phone (307) 789-9213

B.O.P TEST REPORT

B.O.P. TEST PERFORMED ON (DATE) 2/8&9/05

OIL COMPANY NOBLE

WELL NAME & NUMBER ANTELOPE HOLLOW STATE #32-20 43-009-30065 T03N R19E S-20

SECTION 20

TOWNSHIP 3 N

RANGE 19 E

COUNTY & STATE DAGGET UTAH

DRILLING CONTRACTOR UNIT DRLG RIG #166

OIL COMPANY SITE REPRESENTATIVE J. HOWELL

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST

COPIES OF THIS TEST REPORT SENT TO: STATE OF UTAH DIVISION OF OIL, GAS & MINING

UTAH BUREAU OF LAND MANAGEMENT

ORIGINAL CHART & TEST REPORT ON FILE AT:

DOUBLE JACK TESTING & SERVICES, INC.
PO BOX 2097
EVANSTON, WY 82930

TESTED BY: JOE BRUCE & GARY THOMPSON

Double Jack Testing & Services Inc.

FIELD TICKET
№ 18913

Accounting Office: P.O. Box 516 Shoshoni, WY 82649 • (307) 876-9390

Field Operations:

Shoshoni, WY	(307) 876-2308
Evanston, WY	(307) 789-9213
Rock Springs, WY	(307) 382-4020
Big Piney, WY	(307) 276-5265
Vernal, UT	(435) 781-0448

DATE 2-8,+9-05

☒ OPERATOR Noble

☐ CONTRACTOR Unit Drlg. Rig #166

WELL NAME Antelope Hollow State #32

COUNTY	STATE	SECTION	TOWNSHIP	RANGE
Dagget	Ut.	20	3N.	19E.

Items Tested:

	LOW TEST PSI	TIME HELD MINUTES	HIGHTEST PSI	TIME HELD MINUTES
Top Pipe Rams	250	5	5,000	10
Bottom Pipe Rams	250	5	5,000	10
Blind Rams	250	5	5,000	10
Annular B.O.P.	250	5	3500	10
Choke Manifold	250	5	5,000	10
Choke Line valves	250	5	5,000	10
Kill Line valves	250	5	5,000	10
Super Choke	N/A	N/A	5,000	1
Upper Kelly	250	5	5,000	10
Lower Kelly	250	5	5,000	10
Floor Valve	250	5	5,000	10
Dart Valve	250	5	5,000	10
Casing	N/A	N/A	2,100	

Closing Unit PSI 1,300

Closing Time of Rams 9 secs.

Closing Time of Annular 19 secs.

Closed Casing Head Valve yes

Set Wear Sleeve

COMMENTS

WELL NAME & NO. Antelope Hollow St. 32-20
AFE NO. 44568
ACTG CODE 34-01
DOLLAR TOTAL BEING APP'D #3038-
1ST LEVEL APPROVAL
2nd LEVEL APPROVAL DATE 2-8-05
DATE
MAIL TO: NOBLE ENERGY INC.
ATTN: DIV 4 / DRLG
P.O. BOX 909
ARDMORE, OK 73402
NO INVOICE WILL BE PAID W/O ALL ATTACHED SIGNED FIELD TICKETS
3PM - 10PM 2-8-05

ADDITIONAL TESTS & COMMENTS

		CHARGES
TEST PLUG		
TOP SUB.	4 1/2	$55.00
KELLY SUB.	4 1/2	$55.00
X-OVER SUB.		
OTHER		

QUANTITY	RATES		CHARGES
1 unit	UNIT RATES	to test B.O.Ps + Valves for 1st 7 Hrs.	$1,100.00
18 Hrs.	ADDITIONAL	time over set up charge @ $85.00	$1,530.00
180 miles	MILEAGE	to + from location @ $2.10 per mile	$378.00
310	OTHER	Anti-freeze fluid 50/50 Mix @ $2.00	$620.00
2 flanges	OTHER	Charge to torque choke manifold valves @ $150.00 per flange	$300.00

SUBTOTAL $4038.00

TAX

TOTAL

PURCHASE ORDER #

COMPANY REPRESENTATIVE

Joe Bruce, Gary Thompson
TESTED BY

NO ACCIDENTS

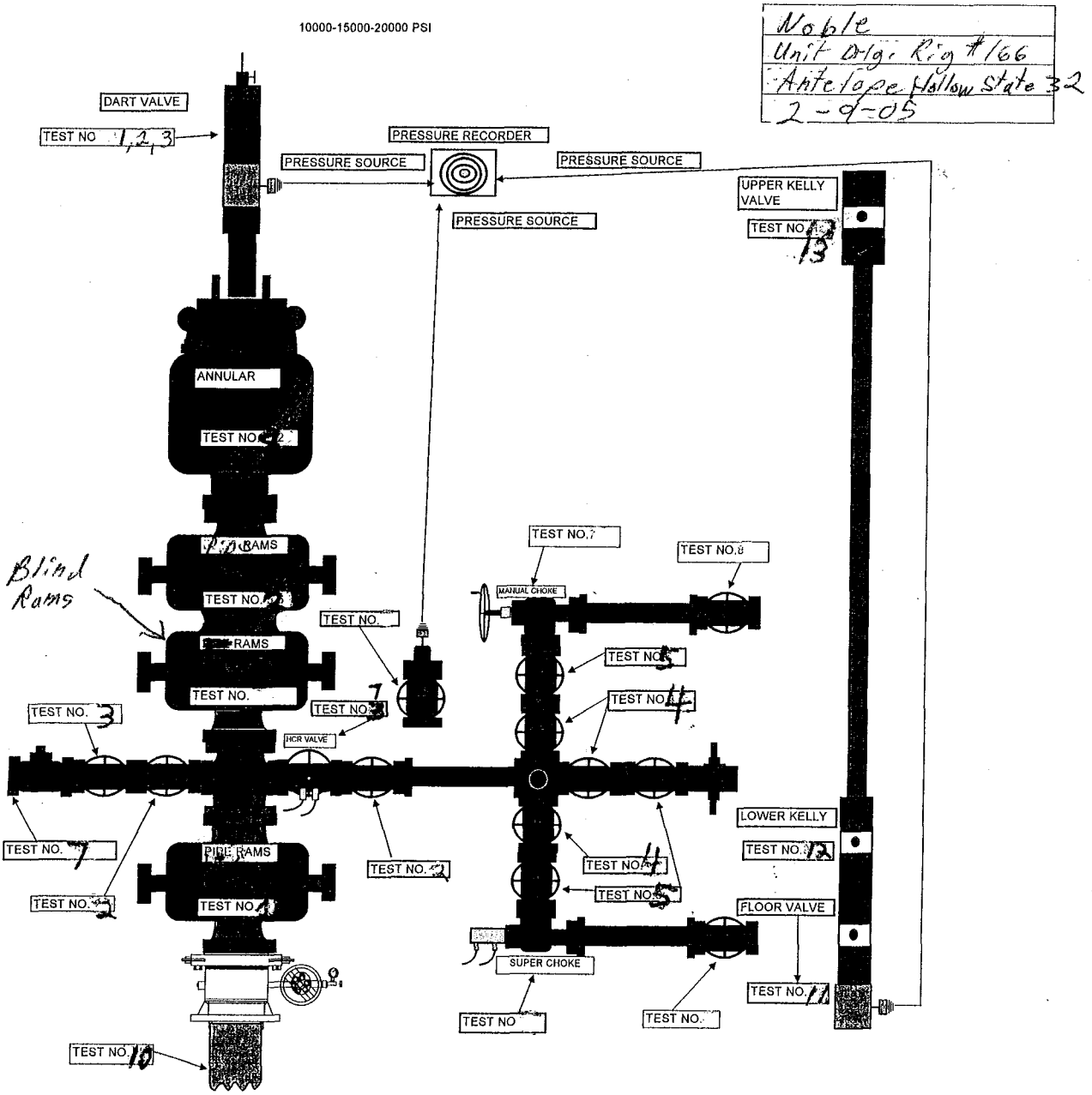
174
DOUBLE JACK TESTING UNIT NUMBER

NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure, under the terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services. A LATE CHARGE will be assessed when accounts are not paid when due. THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCENTAGE RATE OF 21% to the previous balance in the account on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable for damages caused by acts of God, or unforeseen circumstances that could not be reasonably anticipated in performing the work done as set forth above.

DOUBLE JACK TESTING & SERVICES/IPS

COMPANY		LEASE & WELL NAME	TEST DATE	RIG NAME & #
NOBLE		ANTELOPE HOLLOW STATE #32	2/9/05	UNIT DRLG RIG #166
TEST	TIME	ITEMS TESTED		
		96 minute rotation		
1	11:30p.m.	DART VALVE, BOTTOM PIPE RAMS		
2	11:50	TOP PIPE RAMS, INSIDE KILL VALVE & MANUAL		
3	12:30a.m	OUTSIDE KILL VALVE & HCR VALVE (Had to charge outside kill valve leaked)		
4	1:40	INSIDE CHOKE MANIFOLD VALVES (Panic line valve leaked)		
5	4:00	OUTSIDE CHOKE MANIFOLD VALVES		
6	8:00	OUTSIDE KILL VALVE & HCR VALVE RE-TEST		
7	9:00	CHECK VALVE & HCR		
8	9:40	ANNULAR (low 250 5 min. high 3500 10 min.)		
9	10:00	BLIND RAMS		
10	10:45	CASING		
11	12:45 p.m.	T.I.W VALVE		
12	1:45	LOWER KELLY VALVE		
13	1:35	UPPER KELLY VALVE		
14	2:30	RETEST INSIDE CHOKE VALVE		
15	3:00	RETEST FLANGES BETWEEN INSIDE & OUTSIDE CHOKE VLVES		



DOUBLE JACK TESTING

IPS / Double Jack Testing

Accumulator Function Tests

1 RECORD INITIAL ACCUMULATOR PRESSURE 3,000
2 WITH DRILL PIPE & TEST PLUG INSTALLEDIN WELL HEAD.
3 PLACE ALL FUNCTIONING ACCUMULATOR VALVES IN OPEN POSITION
ALLOW ACCUMULATOR TO PRESSURE UP BEFORE SHUTTING OFF ALL PUMPS
4CLOSE ANNULAR / RECORD TIME & PRESSURE.

ANNULAR INTIAL PSI 3,200 FINAL PSI 2,400 TIME 19secs

#5 CLOSE PIPE RAMS / RECORD TIME & PRESSURE.

PIPR RAMS INTIAL PSI 2,400 FINAL PSI 1,950 TIME 16secs

#6 OPEN PIPE RAMSTO SIMULATE BLIND RAMS / RECORD TIME & PRESSURE.
INTIAL PSI 1,950 FINAL PSI 1,420 TIME 35secs

#7 CLOSE HCR (if applicable) / RECORD TIME & PRESSURE.
HCR INTIAL PSI 1,450 FINAL PSI 1,350 TIME 6secs

#8 ON THREE RAM STACK CLOSE BOTTOM PIPE RAM / RECORD TIME & PRESSURE.

PIPE RAMS INTIAL PSI 1,350 FINAL PSI 1,300 TIME 7secs

#9 WHEN DONE WITH RECORDED TIMES & PRESSURES THERE SHOULD BE AT LEAST 200 PSI OVER PRECHARGE IN THE ACCUMLATOR (1200 PSI)

#10 OPEN ANNULAR

NITROGEN BOTTLES / BLEED OFF TEST

#1 FINISH BLEEDING OFF BOTTLES INTO ACCUMLATOR TANK/RESERVOIR.
#2 WATCH & RECORD WHERE PRESSURE DROPS (accumulator psi)

PRESSURE DROP 960 PSI

#3 ACCUMULATOR PSI SHOULD DROP AT 1100 PSI TO 950 PSI

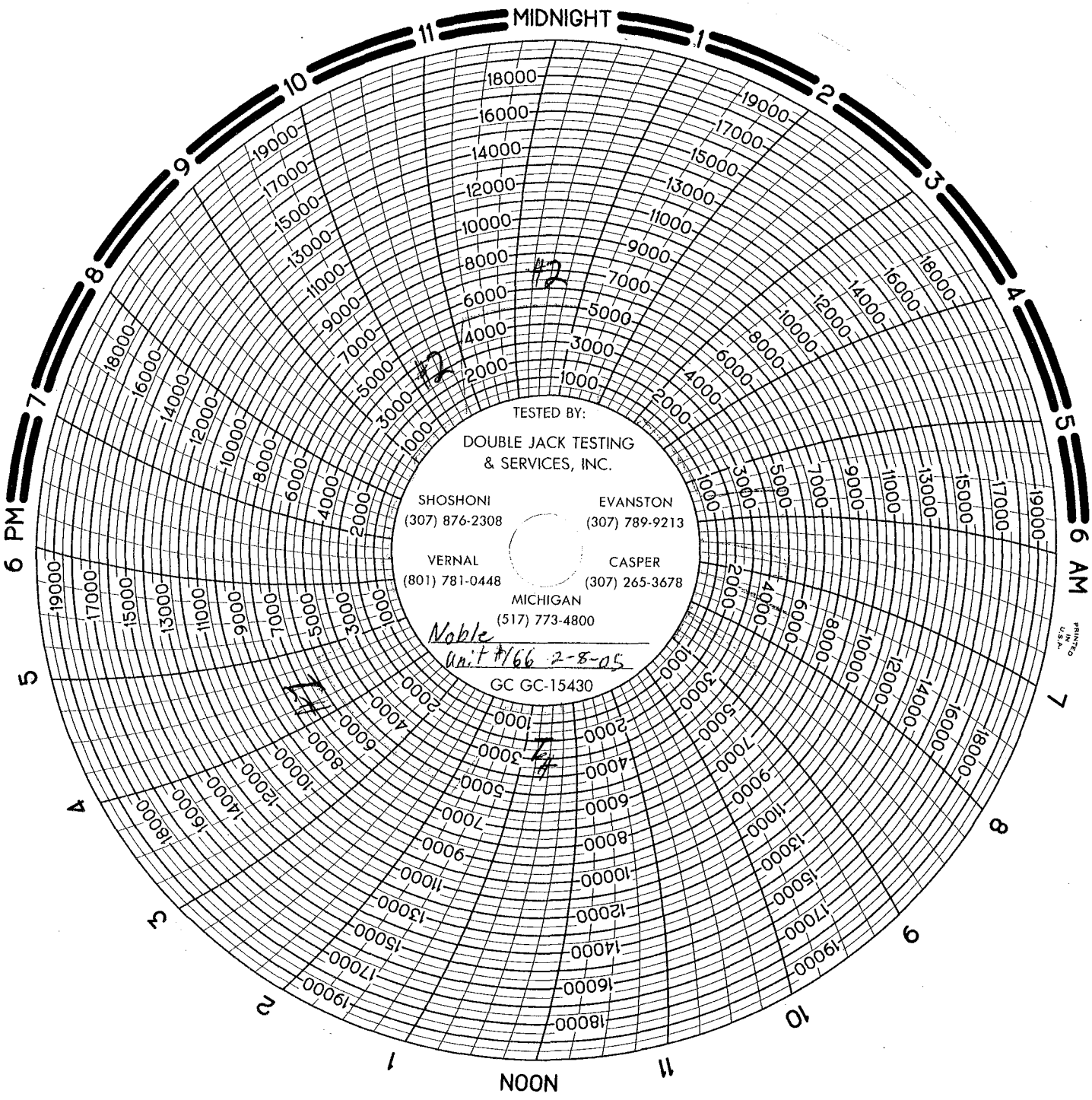
---

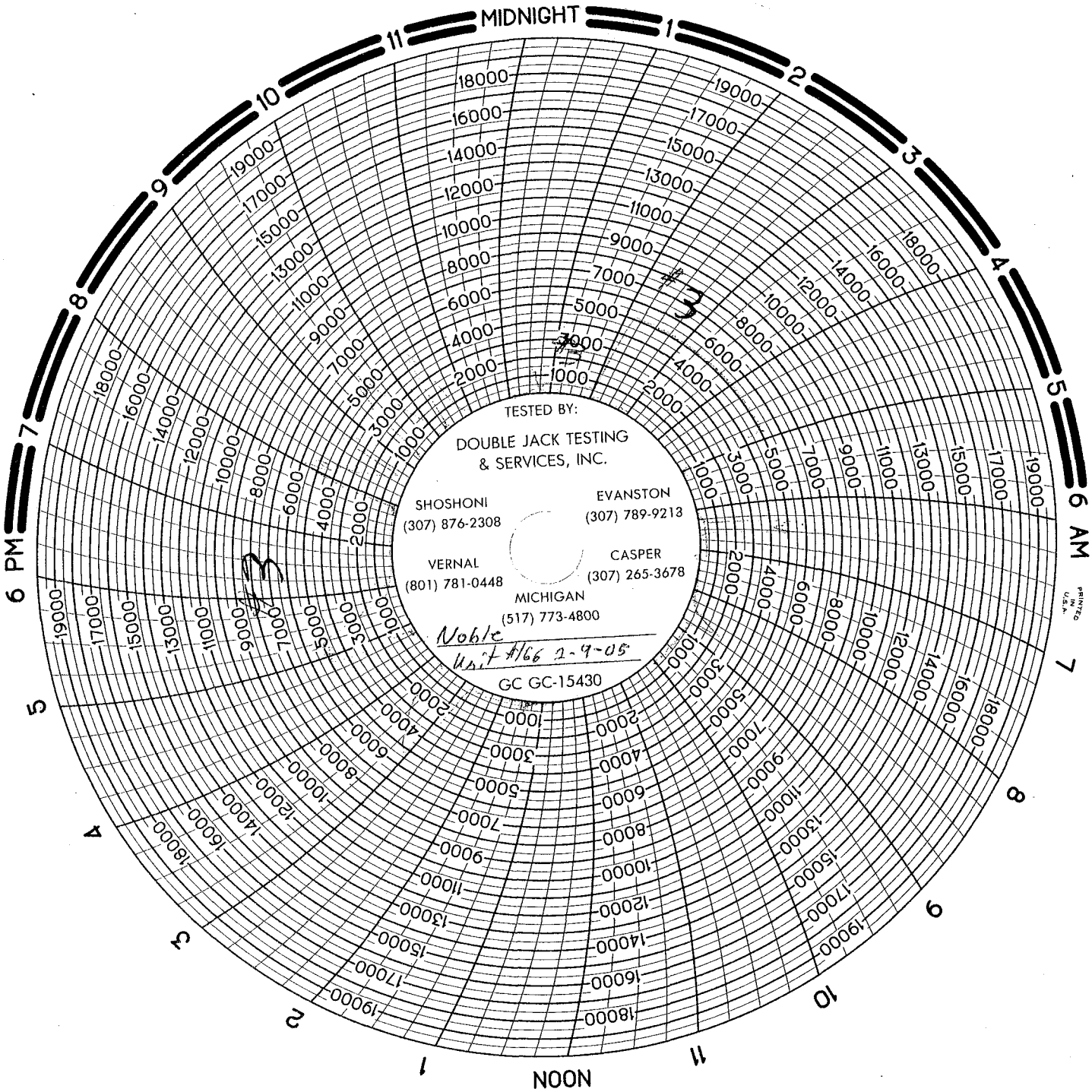
2 MINUTE TIME TEST / ACCUMULATOR PUMPS

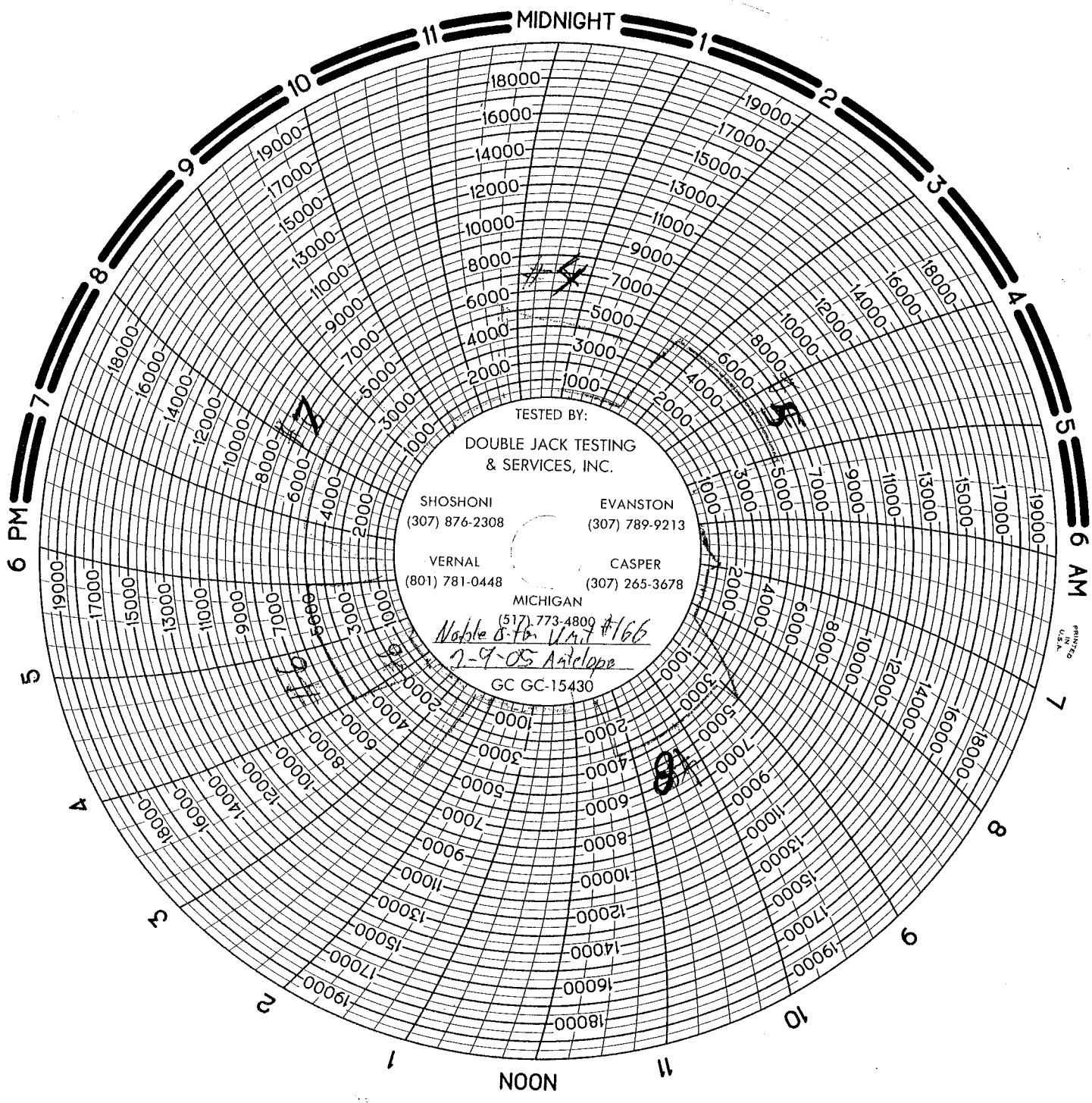
#1 SHUT VALVES TO NITROGEN BOTTLES.
#2 PLACE HCR IN THE OPEN POSITION. (if applicable)
#3 PLACE ANNULAR IN THE CLOSE POSITION.
#4 TURN ON PUMPS & RECORD TIME TO PRESSURE UP MANIFOLD ON ACCUMULATOR TO ATLEAST 200PSI OVER PRECHARGE. WITHIN 2 MIN. OR LESS.

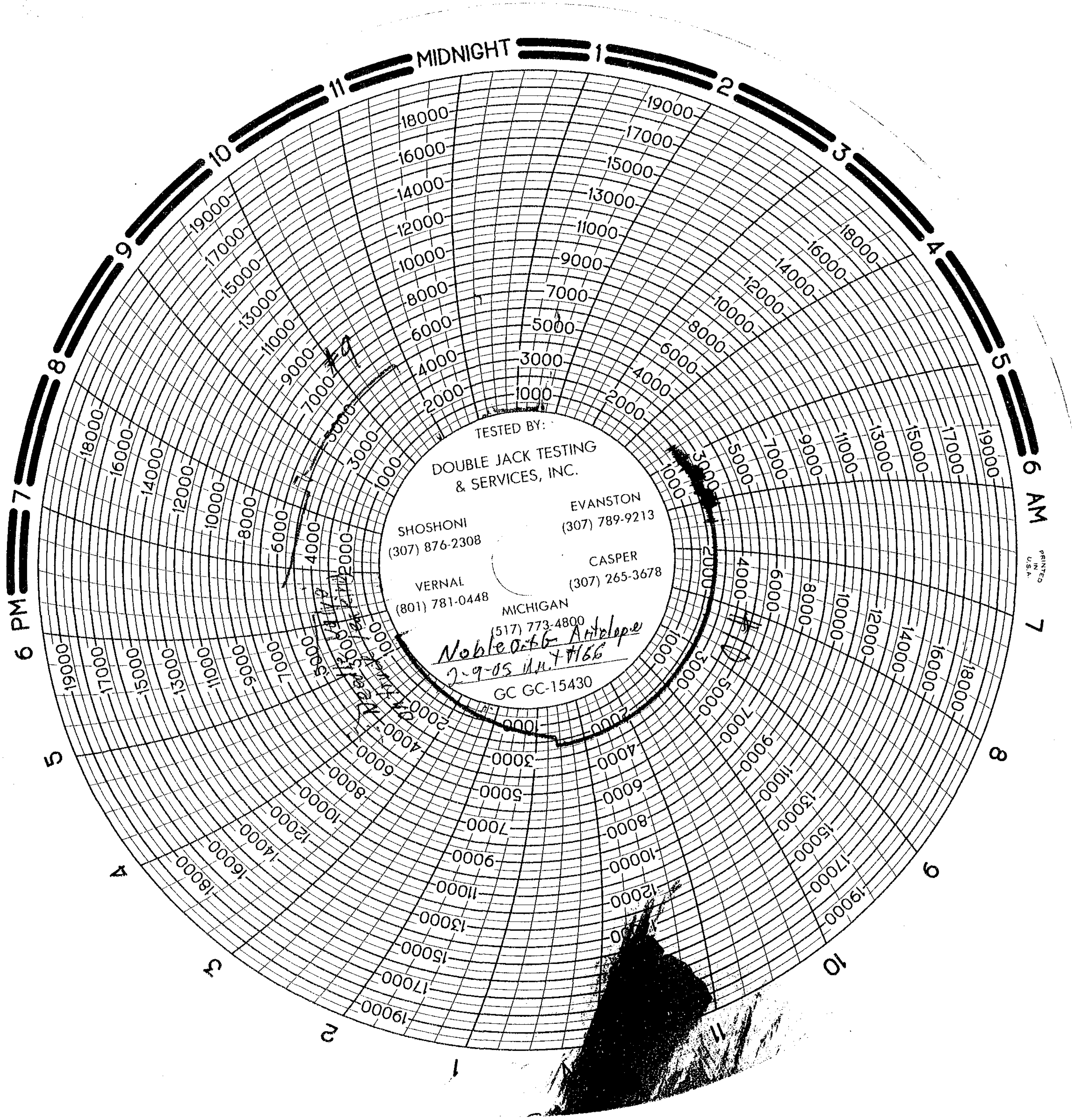
RECORDED TIME 2 MINUTE 10 SEC.

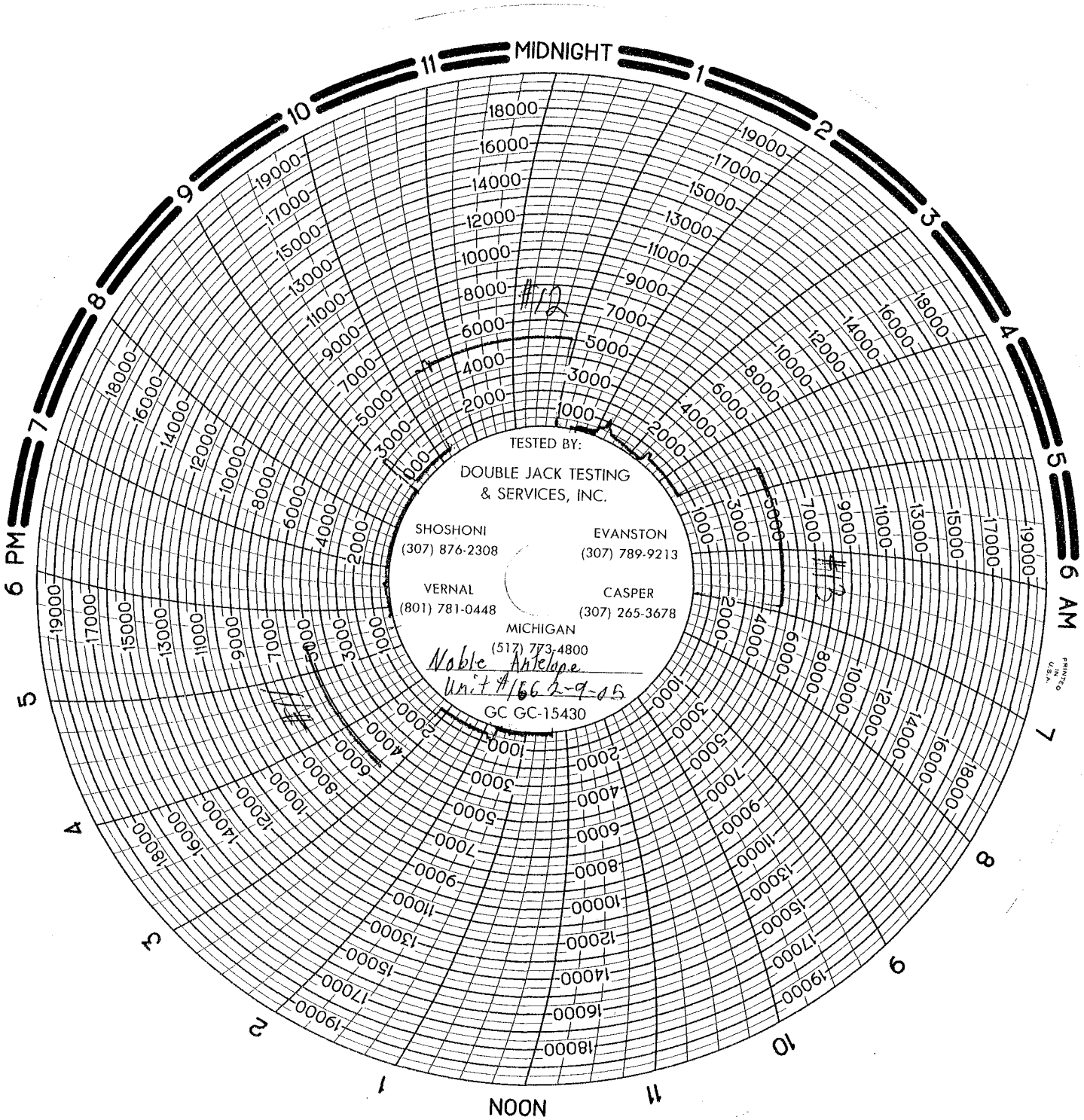
#5 OPEN VALVES TO NITROGEN BOTTLES & PRESSURE THE ACCUMULATOR BACK TO SHUT OFF POINT. THEN OPEN ALL PIPE RAMS & ANNULAR BEFORE PULLING PLUG AND DRILL PIPE OUT OF BOP.

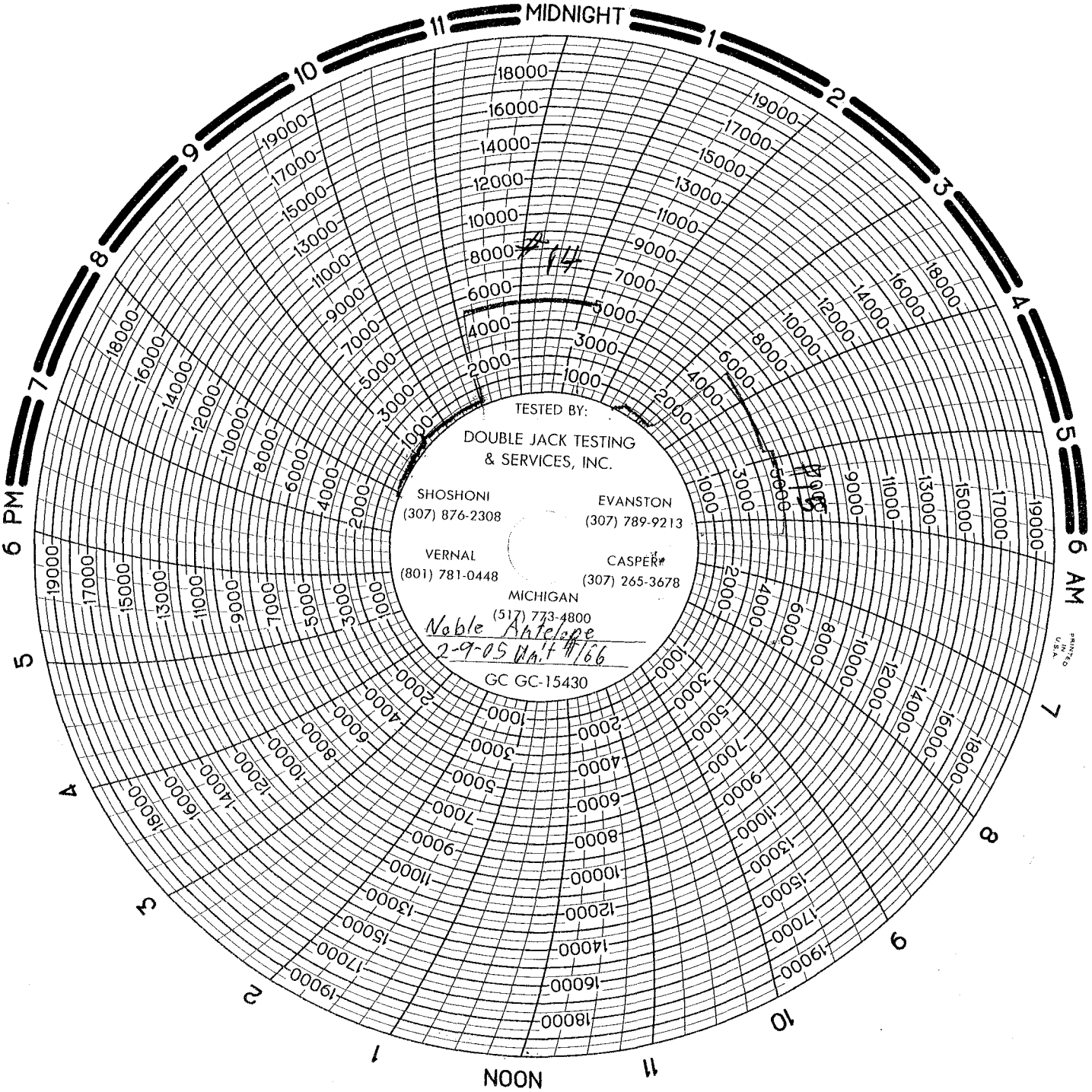

MIDNIGHT
NOON
6 PM
6 AM
TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
SHOSHONI
(307) 876-2308
EVANSTON
(307) 789-9213
VERNAL
(801) 781-0448
CASPER
(307) 265-3678
MICHIGAN
(517) 773-4800
Noble
Unit #166 2-8-05
GC GC-15430
#2
#2
#4
#4


MIDNIGHT
NOON
6 AM
6 PM
TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
SHOSHONI
(307) 876-2308
EVANSTON
(307) 789-9213
VERNAL
(801) 781-0448
CASPER
(307) 265-3678
MICHIGAN
(517) 773-4800
Noble
Unit #166 2-9-05
GC GC-15430


MIDNIGHT
NOON
6 PM
6 AM
TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
SHOSHONI
(307) 876-2308
EVANSTON
(307) 789-9213
VERNAL
(801) 781-0448
CASPER
(307) 265-3678
MICHIGAN
(517) 773-4800
Noble B-Pad Unit #166
2-9-05 Antelope
GC GC-15430


MIDNIGHT
6 AM
6 PM
TESTED BY:
DOUBLE JACK TESTING & SERVICES, INC.
SHOSHONI (307) 876-2308
EVANSTON (307) 789-9213
CASPER (307) 265-3678
VERNAL (801) 781-0448
MICHIGAN (517) 773-4800
Noble O&G Antelope
2-9-05 U.U.T. #166
GC GC-15430
PRINTED IN U.S.A.


MIDNIGHT
NOON
6 AM
6 PM
#1
#2
#3
TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
SHOSHONI
(307) 876-2308
EVANSTON
(307) 789-9213
VERNAL
(801) 781-0448
CASPER
(307) 265-3678
MICHIGAN
(517) 773-4800
Noble Antelope
Unit #1662-9-05
GC GC-15430


MIDNIGHT
NOON
6 PM
6 AM
TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
SHOSHONI
(307) 876-2308
EVANSTON
(307) 789-9213
VERNAL
(801) 781-0448
CASPER
(307) 265-3678
MICHIGAN
(517) 773-4800
Noble Antelope
2-9-05 Unit #166
GC GC-15430

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

009

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Energy, Inc.

9. API NUMBER: 43-009-30065

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 874-6765

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL

COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

02/07/2005 - Cmt. 13 3/8" csg. w/910 sx premlite. Made rough cut on 20" & 13 3/8". Weld on SOW head w/ base plate. Test.
02/08/2005 - Stack & NU BOPE. Test.
02/09/2005 - PU &NU Riser & rotating head. PU new bit.
02/10/2005 - Wash & tag cmt @ 1853'. Drill cmt. Drill to 2295'.
02/11/2005 - Drill to 3100'.
02/12/2005 - Drill to 3564'.
02/13/2005 - Drill to 3902'.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 2/14/2005

(This space for State use only)

RECEIVED
FEB 18 2005
DIV. OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

cc
3/18/05
010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Antelope Hollow State 32-20
9. API NUMBER: 43-009-30065
10. FIELD AND POOL, OR WILDCAT: Wildcat

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: Noble Energy, Inc.
3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067 PHONE NUMBER: (281) 874-6765
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL COUNTY: Daggett
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

02/14/2005 - Drill from 3902' to 4357'. Service Rig.
02/15/2005 - Drill to 4390'. Pumped Hi-Vis sweep. Wash & ream to btm. Drill to 4561'.
02/16/2005 - Drill to 4613'. Service rig. Drill to 4899'. Ran survey. Drill to 4920'.
02/17/2005 - Drill to 5285'.
02/18/2005 - Drill to 5624'.
02/19/2005 - Drill to 5912'. POOH.
02/20/2005 - PU new 12 1/4" PDC bit & motor. Wash & ream. Drill to 5919'.
02/21/2005 - Drill to 6445'.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist
SIGNATURE Patricia Jaenecke DATE 2/22/2005

(This space for State use only)

RECEIVED
FEB 25 2005
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

CC
3/8/05
011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Energy, Inc.

9. API NUMBER: 43-009-30065

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 874-6765

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL

COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

02/22/2005 - Drill from 6445' to 6980'. Circ & survey. Service Rig.
02/23/2005 - Drill to 7314'. Service Rig.
02/24/2005 - Drill to 7341'. POOH for bit. Drill to 7346'.
02/25/2005 - Drill to 7560'.
02/26/2005 - Drill to 7753'.
02/27/2005 - Drill to 7941'.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 2/28/2005

(This space for State use only)

RECEIVED
MAR 0 / 2005
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
7. UNIT or CA AGREEMENT NAME: N/A	
1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER	8. WELL NAME and NUMBER: Antelope Hollow State 32-20
2. NAME OF OPERATOR: Noble Energy, Inc.	9. API NUMBER: 43-009-30065
3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067 / PHONE NUMBER: (281) 874-6765	10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL — COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S — STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

02/28/2005 - Drill from 7941' to 7967'. POOH.Service Rig. TIH to 7870'. Wash & ream to TD. possible plugged jet.
03/01/2005 - Clean out hole. Pump slug. PU bit #7 and drill to 8048'.
03/02/2005 - Drill to 8303'. Bit stuck when PU to make connection.
03/03/2005 - Jar on stuck bit. Bit free. POOH. PU bit #8 & RIH.
03/04/2005 - RIH to 1900'. Rig Service. Drill to 8556'.
03/05/2005 - Drill to 8817'. Survey @8635'. Drill to 8857'.
03/06/2005 - Drill to 8995'.

NAME (PLEASE PRINT) Patricia Jaenecke — TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke — DATE 03/07/05

(This space for State use only)

RECEIVED
MAR 11 2005
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

013

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Energy, Inc.

9. API NUMBER: 43-009-30065

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 874-6765

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL

COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

03/07/2005 - Drill to 9006'. POOH for bit. Wash & ream to 9006'. Drill to 9010'.
03/08/2005 - Drill to 9144'.
03/09/2005 - Drill to 9167'. Drill string plugged. Determined float in upside-down. POOH to correct float problem.
03/10/2005 - Wash & ream 57' to bottom. Drill to 9254'.
03/11/2005 - Drill to 9292'. Rig service. Drill to 9495'.
03/12/2005 - Drill to 9622'.
03/13/2005 - Drill to 9623'. RIH w/bit. Wash & ream to 9623'. Drill to 9665'.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 3/14/2005

(This space for State use only)

RECEIVED
MAR 2 1 2005
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

014

DOUBLE JACK TESTING & SERVICES/IPS
Phone (307) 789-9213

4300930065

B.O.P TEST REPORT

RECEIVED
MAR 2 8 2005
DIV OF OIL, GAS & MINING

B.O.P. TEST PERFORMED ON (DATE) 3/20/05

OIL COMPANY NOBLE

WELL NAME & NUMBER ANTELOPE HOLLOW

SECTION 20

TOWNSHIP 3 N

RANGE 19 E

COUNTY & STATE DAGGET , UT

DRILLING CONTRACTOR UNIT 166

OIL COMPANY SITE REPRESENTATIVE HOWELL

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST

COPIES OF THIS TEST REPORT SENT TO: Utah Oil & Gas Commission

BLM - Salt Lake City, Utah

ORIGINAL CHART & TEST REPORT ON FILE AT:

DOUBLE JACK TESTING & SERVICES, INC.
PO BOX 2097
EVANSTON, WY 82930

TESTED BY: Mike Fisher

IPS / dba Double Jack Testing

FIELD TICKET 22195

Accounting Office: PO Drawer 2080 • Riverton, WY 82501 • (307) 857-0076

Field Operations:
Riverton, WY (307) 857-0077
Evanston, WY (307) 789-9213
Rock Springs, WY (307) 382-4020
Big Piney, WY (307) 276-5265
Vernal, UT (435) 781-0448

DATE 3-20-05
[X] OPERATOR Noble
[ ] CONTRACTOR Unit 166
WELL NAME Antelope Hollow State #32

COUNTY	STATE	SECTION	TOWNSHIP	RANGE
Dagget	Ut.	20	3N	19E

Items Tested:

	LOW TEST PSI	TIME HELD MINUTES	HIGHTEST PSI	TIME HELD MINUTES
Top Pipe Rams	250	5	10,000	10
Bottom Pipe Rams	250	5	10,000	10
Blind Rams	250	5	10,000	10
Annular B.O.P.	250	5	3500	10
Choke Manifold	250	5	10,000	10
Choke Line	250	5	10,000	10
Kill Line	250	5	10,000	10
Super Choke	—	—	10,000	2
Upper Kelly	250	5	10,000	10
Lower Kelly	250	5	10,000	10
Floor Valve	250	5	10,000	10
Dart Valve	250	5	10,000	10
Casing	—	—	5,700	30

Closing Unit PSI
Closing Time of Rams
Closing Time of Annular
Closed Casing Head Valve yes
Set Wear Sleeve NO

COMMENTS

WELL NAME & NO. Antelope Hollow 37-32-20
AFE NO. 4456
ACTG CODE 24-01
DOLLAR TOTAL BEING APPV'D $2884.00
1ST LEVEL APPROVAL DATE 20 Mar 05
2ND LEVEL APPROVAL DATE
MAIL TO: [illegible]

ADDITIONAL TESTS & COMMENTS DRILLING [X] COMPLETION [ ]

Tested Back to Pumps to 5000psi 10 min
Tested casing to 5700psi 30 min

		CHARGES
TEST PLUG	use thiers	
TOP SUB.	4 1/2 IF	55.00
KELLY SUB.	4 1/2 IF	55.00
X-OVER SUB.		
OTHER		

QUANTITY	RATES		CHARGES
1 unit	UNIT RATES	10,000psi test first 7hrs on Location	1500.00
6 hrs	ADDITIONAL	first 7hrs @ 85/hr	510.00
190 miles	MILEAGE	Mileage Round Trip out of Evanston, wy	378.00
193	ANTIFREEZE	50/50 Pre-mix @ $2 per gallon	386.00
	OTHER		

PURCHASE ORDER #	NO ACCIDENTS	TESTED BY	SUBTOTAL 2884.00
J. Harrell	174		TAX
COMPANY REPRESENTATIVE	DOUBLE JACK TESTING UNIT NUMBER		TOTAL

Mike Fisher

NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure, under the terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services. A LATE CHARGE will be assessed when accounts are not paid when due. THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCENTAGE RATE OF 21% to the previous balance in the account on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable for damages caused by acts of God, or unforeseen circumstances that could not be reasonably anticipated in performing the work done as set forth above.

DOUBLE JACK TESTING & SERVICES/IPS

COMPANY		LEASE & WELL NAME	TEST DATE	RIG NAME & #
NOBLE		ANTELOPE HOLLOW STATE #32	3/20/05	UNIT 166
TEST	TIME	ITEMS TESTED		
		96 minute rotation		
1	8:05 a.m.	LOWER PIPE RAMS		
2	8:30	UPPER PIPE RAMS, INSIDE KILL, MANUAL, DART		
3	8:55	UPPER PIPE RAMS, OUTSIDE KILL, H C R, DART		
4	9:35	UPPER PIPE RAMS, INSIDE CHOKE MANIFOLD, RISER, CHECK (My relief valve		
		Leaked had to screw it in more)		
5	9:58	SUPER CHOKES		
6	10:30	ANNULAR (Did function test)		
7	12:10 p.m.	BLINDS, OUTSIDE CHOKE MANIFOLD VALVES		
8	12:40	T I W		
9	1:05	LOWER KELLY		
10	1:35	UPPER KELLY		
11	4:35	CASING 5700 psi 30 min		
12	6:30	BACK TO PUMPS 10 min 5000 psi		

3-20-09
Noble
unit 166
Antelope Hollow state #32

IPS / Double Jack Testing

Accumulator Function Tests

1 RECORD INITIAL ACCUMULATOR PRESSURE 3000psi

2 WITH DRILL PIPE & TEST PLUG INSTALLED IN WELL HEAD.

3 PLACE ALL FUNCTIONING ACCUMULATOR VALVES IN OPEN POSITION
ALLOW ACCUMULATOR TO PRESSURE UP BEFORE SHUTTING OFF ALL PUMPS

4 CLOSE ANNULAR / RECORD TIME & PRESSURE.
ANNULAR INTIAL PSI 3000psi FINAL PSI 2000 TIME _____

#5 CLOSE PIPE RAMS / RECORD TIME & PRESSURE.
PIPE RAMS INTIAL PSI 2000 FINAL PSI 1750 TIME _____

#6 OPEN PIPE RAMS TO SIMULATE BLIND RAMS / RECORD TIME & PRESSURE.
INTIAL PSI 1750 FINAL PSI 1600 TIME _____

#7 CLOSE HCR (if applicable) / RECORD TIME & PRESSURE.
HCR INTIAL PSI 1600 FINAL PSI 1600 TIME _____

#8 ON THREE RAM STACK CLOSE BOTTOM PIPE RAM / RECORD TIME & PRESSURE.
PIPE RAMS INTIAL PSI 1600 FINAL PSI 1450 TIME _____

#9 IF YOU HAVE A 3 RAM STACK OPEN THE ANNULAR TO ACHIEVE THE 50+% SAFETY FACTOR FOR 5M AND GREATER SYSTEMS.

#10 WHEN DONE WITH RECORDED TIMES & PRESSURES THERE SHOULD BE AT LEAST 200 PSI OVER PRECHARGE IN THE ACCUMLATOR (1200 PSI)

#11 OPEN ANNULAR

NITROGEN BOTTLES / BLEED OFF TEST

#1 FINISH BLEEDING OFF BOTTLES INTO ACCUMLATOR TANK/RESERVOIR.
#2 WATCH & RECORD WHERE PRESSURE DROPS (accumulator psi)

PRESSURE DROP 950 PSI

#3 ACCUMULATOR PSI SHOULD DROP AT 1100 PSI TO 950 PSI

---

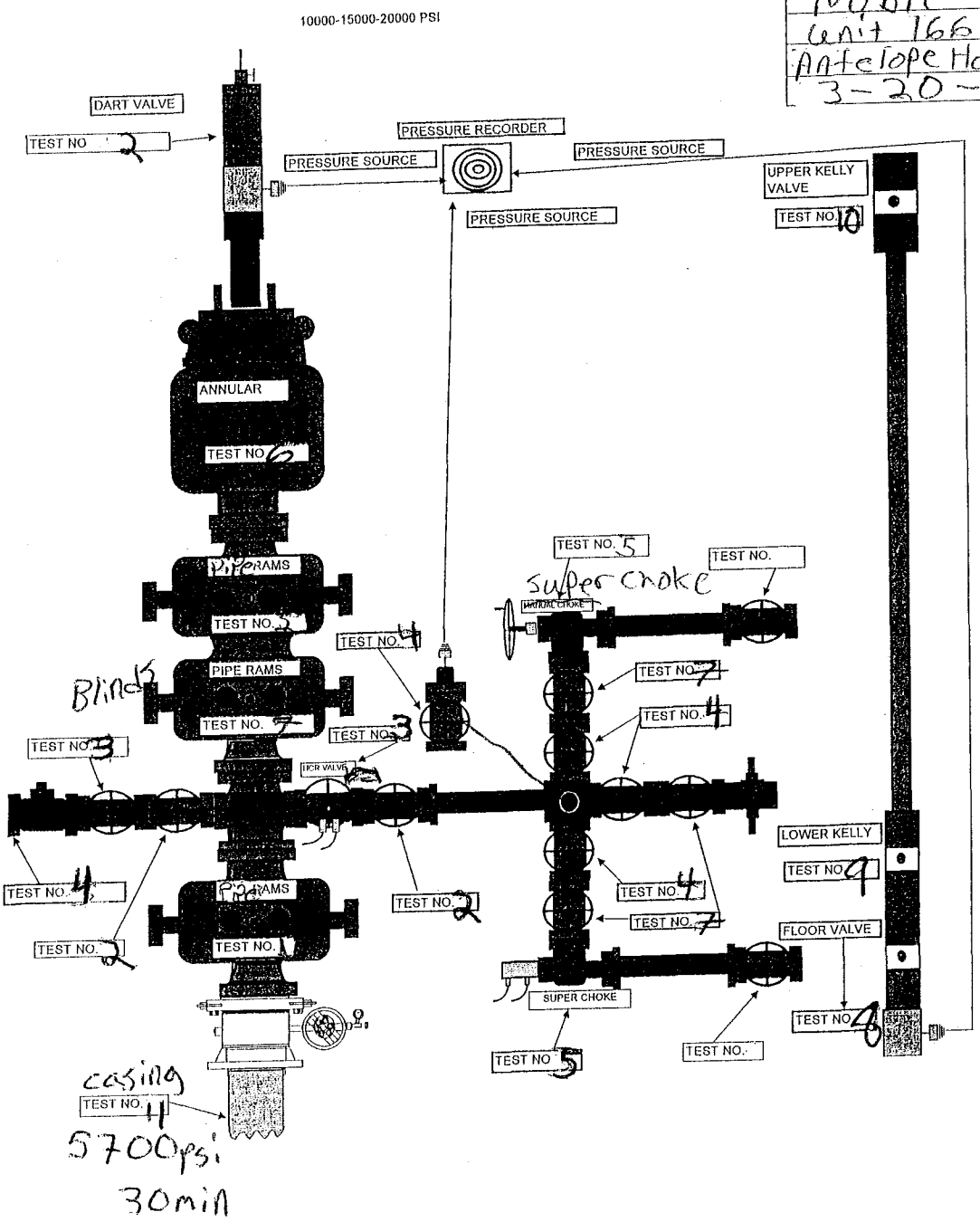
2 MINUTE TIME TEST / ACCUMULATOR PUMPS

#1 SHUT VALVES TO NITROGEN BOTTLES.
#2 PLACE HCR IN THE OPEN POSITION. (if applicable)
#3 PLACE ANNULAR IN THE CLOSE POSITION.
#4 TURN ON PUMPS & RECORD TIME TO PRESSURE UP MANIFOLD ON ACCUMULATOR TO ATLEAST 200PSI OVER PRECHARGE. WITHIN 2 MIN. OR LESS.

RECORDED TIME 2 MINUTE 12 SEC.

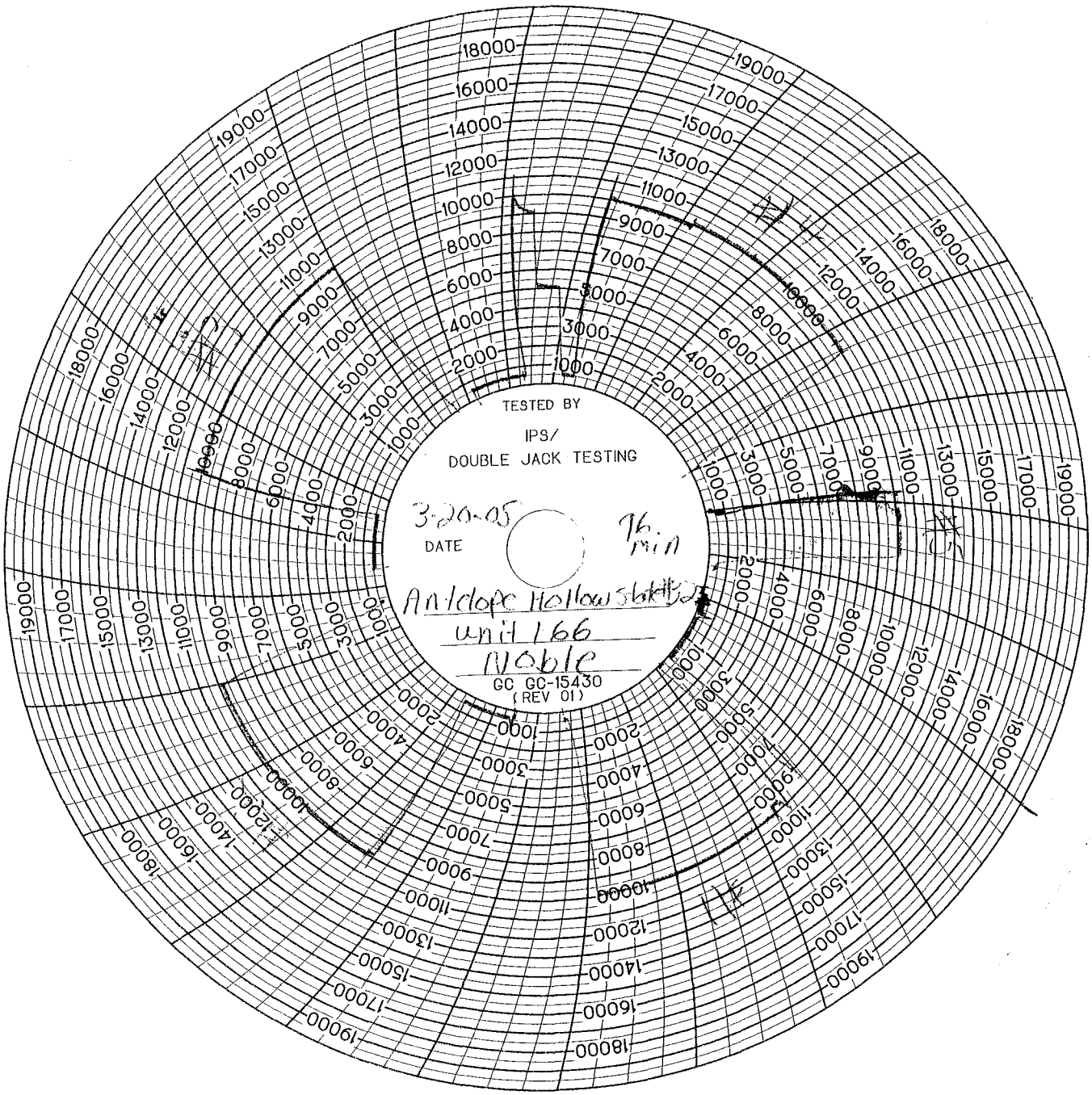
#5 OPEN VALVES TO NITROGEN BOTTLES & PRESSURE THE ACCUMULATOR BACK TO SHUT OFF POINT. THEN OPEN ALL PIPE RAMS & ANNULAR BEFORE PULLING PLUG AND DRILL PIPE OUT OF BOP.

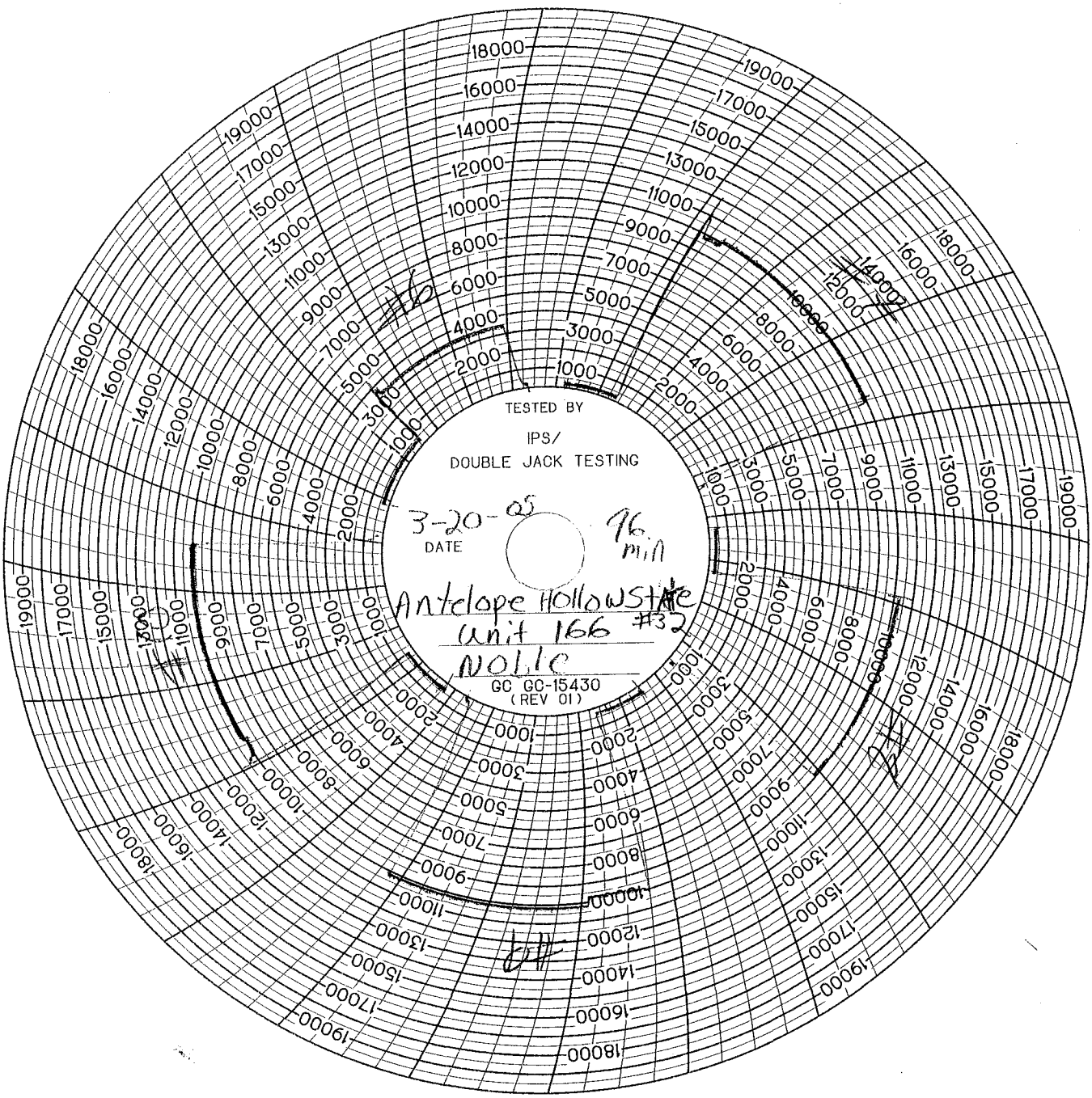
Noble
Unit 166
Antelope Hollow State #32
3-20-05

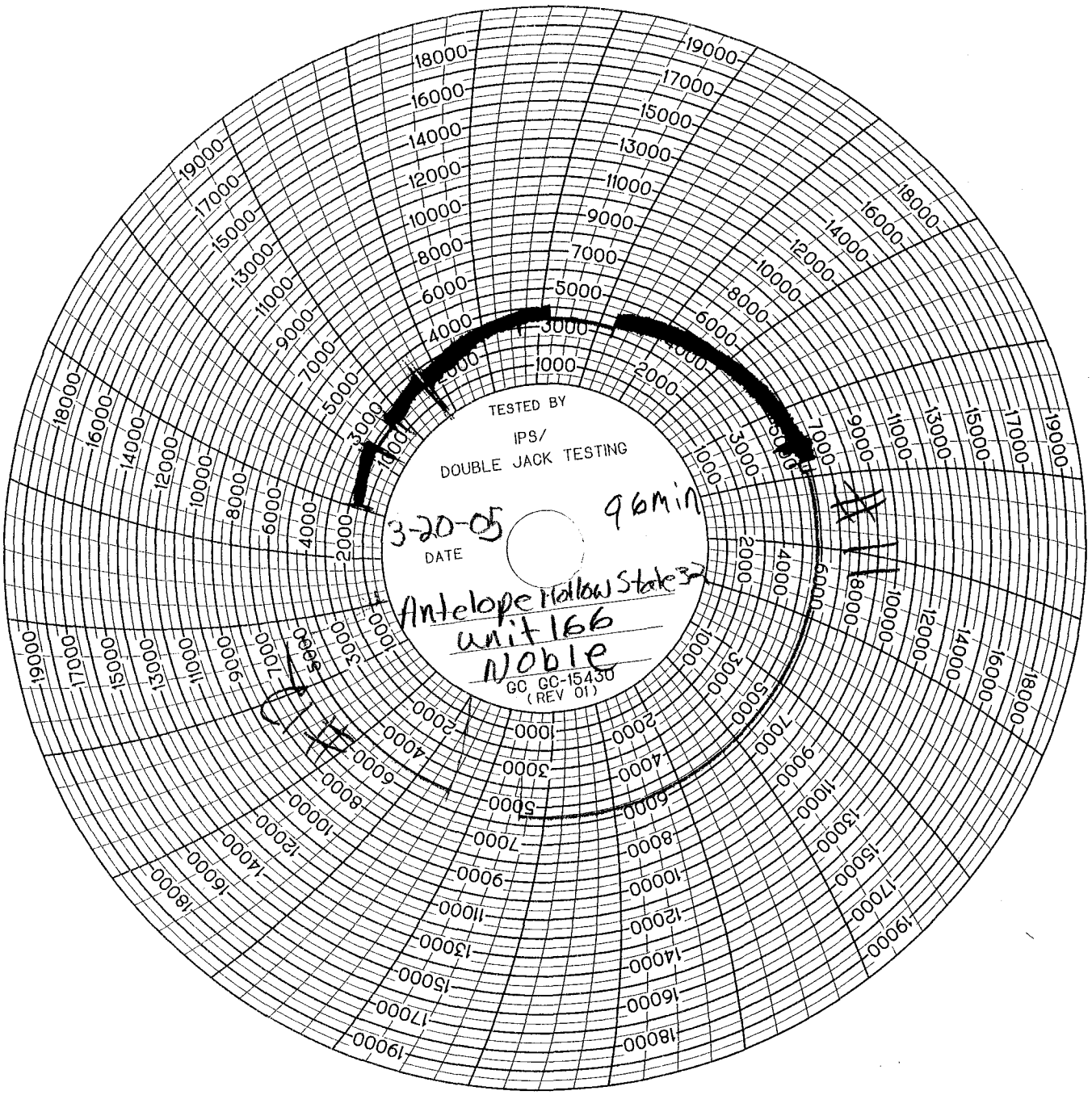


#12 Back to pumps 5000psi

DOUBLE JACK TESTING


TESTED BY
IPS/
DOUBLE JACK TESTING
3-20-05
DATE
96 min
Antelope Hollow Unit B
unit 166
Noble
GC GC-15430
(REV 01)


TESTED BY
IPS/
DOUBLE JACK TESTING
3-20-05
DATE
76 min
Antelope Hollow State
unit 166 #32
NOLLC
GC GC-15430
(REV 01)


TESTED BY
IPS/
DOUBLE JACK TESTING
3-20-05
DATE
96min
Antelope Hollow State 32
unit 166
Noble
GC GC-15430
(REV 01)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

015

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	ML-47543
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
8. WELL NAME and NUMBER:	Antelope Hollow State 32-20
9. API NUMBER:	43-009-30065
10. FIELD AND POOL, OR WILDCAT:	Wildcat

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Noble Energy, Inc.

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067 PHONE NUMBER: (281) 874-6765

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL COUNTY: Daggett
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

03/14/2005 - Rig Repair. Drill to 9,830'.
03/15/2005 - Drill to 9,964'.
03/16/2005 - Drill to 9,966'. Wiper trip. RU Halliburton to run triple-combo log.
03/17/2005 - RIH w/sonic-dip meter and log. POOH.
03/18/2005 - RU Frank's Westates casing crew and run 9 5/8" csg.
03/19/2005 - Continue running csg. RD Franks'. RU BJ and cmt csg.
03/20/2005 - Cleaning mud tanks. Test BOPE. Test csg - test witnessed by Chris Kierst w/UOGC.
03/21/2005 - RIH w/open-ended. POOH. Installing DP rubbers on every-other joint of DP.
03/22/2005 - Drilling cmt in float joints.
03/23/2005 - Circ. Drill cmt from 9950' thru shoe. Drill to 10,148'.
03/24/2005 - Drill to 10,335'.
03/25/2005 - Drill to 10,581'.
03/26/2005 - Drill to 10,803'.
03/27/2005 - Drill to 10,830'. POOH w/ bit #12, PU bit #13.
03/28/2005 - Drill to 10,895' Service rig.

RECEIVED
APR 0 1 2005
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 3/28/2005

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

016

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
8. WELL NAME and NUMBER: Antelope Hollow State 32-20
2. NAME OF OPERATOR: Noble Energy, Inc.
9. API NUMBER: 43-009-30065
3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067
PHONE NUMBER: (281) 874-6765
10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL
COUNTY: Daggett
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

04/18/2005 - Drill to 13,442'.
04/19/2005 - Drill to 13,595'.
04/20/2005 - Drill to 13,732'.
04/21/2005 - Drill to 13,900'. Service rig.
04/22/2005 - Drill to 13,915'. Wiper trip. Pump Hi-Vis sweep. POOH to log. RU Halco, running Triple Combo.
04/23/2005 - Ran velocity survey tools in hole, began survey.
04/24/2005 - Ran check-shot seismic survey. RD Halliburton. RU double Jack Testers and test BOPE. RIH w/bit.

NAME (PLEASE PRINT) Patricia Jaenecke
TITLE Sr. Regulatory Specialist
SIGNATURE Patricia Jaenecke
DATE 4/25/2005

(This space for State use only)

RECEIVED
APR 28 2005
DIV. OF OIL, GAS & MINING

(5/2000)
(See Instructions on Reverse Side)

017

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Enegy, Inc

9. API NUMBER: 4300930065

3. ADDRESS OF OPERATOR: 100 Glenborough Drive CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 872-3100

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844 FNL & 2046 FEL of Section 20

COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 4/26/2005	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☑ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached procedure and well bore diagram.

RECEIVED
APR 2 6 2005
DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR
Date: 4-27-05
Initials: CHD

NAME (PLEASE PRINT) James M. Stringfield TITLE Drilling Consultant

SIGNATURE James M. Stringfield DATE 4/26/2005

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
(See Instructions on Reverse Side)
DATE: 4/26/05
BY: D. Hill
* See conditions of Approval (Attached)

(5/2000)

Plugging and Abandonment Procedure
Antelope Hollow State No. 32-20
Daggett County, Utah

Procedure:

1. Trip out of hole and lay down jars, drill collars, shock sub, motor and bit.
2. Trip in hole with cement retainer on DP and set at 9800'+/-. Pressure test annulus to 1000 psi. Establish injection down drill pipe.
3. Pull stinger out of retainer and pressure test casing and retainer to 1000 psi.
4. Mix sufficient cement to fill casing and open hole from 9600' to 10067' (100' in open hole with 50% excess plus 167' in casing below retainer plus 200' on top of the retainer in the casing).
5. Displace cement to the stinger with oil base mud and spacer. Sting into retainer and displace sufficient cement to fill from the retainer to 10067' while monitoring annulus for communication.
6. Pull out of retainer and spot remainder of the cement (sufficient to fill casing from the retainer up to 9600') on top of the retainer.
7. Pull up above the cement plug and reverse out. Wait on cement. Test casing and cement plug to 1000 psi.
8. Displace oil base mud in casing with 9.0 ppg +/- mud from the reserve pit. Return recovered oil base mud to Baroid for credit.
9. Trip out laying down drill pipe to 2100'. Spot a 200' balanced cement plug from 2100' to 1900'.
10. Trip out laying down drill pipe to 200' below ground level.
11. Spot a cement plug in the 9 5/8" casing from 200' below ground level to surface. Lay down remaining drill pipe.
12. Cut off casing strings 3' below ground level.
13. If there is no cement between the 9 5/8" and 13 3/8" casing run 1" tubing to 100' and spot cement from 100' to surface in the 9 5/8" x 13 3/8" annulus.
14. Install state approved monument. Monument must show well number, location and name of the lease. The monument will consist of a length of pipe not less than 4" in diameter and not less than 10' in length, of which 4' must be above the ground level and the remainder securely embedded in cement. The top of the pipe must be permanently sealed.
15. Clean, rig down and move out drilling rig.
16. Develop location restoration plan.

noble energy

DRILLING WELL PLAN

Antelope Hollow State 32-20
Section 20-T3N-R19E
Daggett County, Utah

PROJECT DESCRIPTION: Plug and abandon well,

WELL PLAN

HOLE	CASING	GEOLOGY	MD/TVD	Elevation - 7010' KB	MUD	CEMENT	DIRECTION	LOGS
Pre-set	20"		100' MD 100' TVD		Water Base			None
17 1/2"	13 3/8" 61 ppf J55 BTC Pc=1540# Pb=3090#		1947' MD 1947' TVD		8.9 ppg Water Base		SBHT 90°F	None
12 1/4"	9 5/8" 53.5 ppf P110 LTC Pc=7950# Pb=10900#	Wasatch FIT 12.5 ppg Lance Ericson Rock Springs Blair Hilliard Actual TD	2800'+/- 9967' MD 9967' TVD 10323' 11202' 12073' 13189' 13938' 14300'		9.0 ppg Oil Base Mud		SBHT 170°F	
8 1/2"			18250' MD 18250' TVD		8.9 ppg Planned TD		SBHT 253°F	

JMS

noble energy

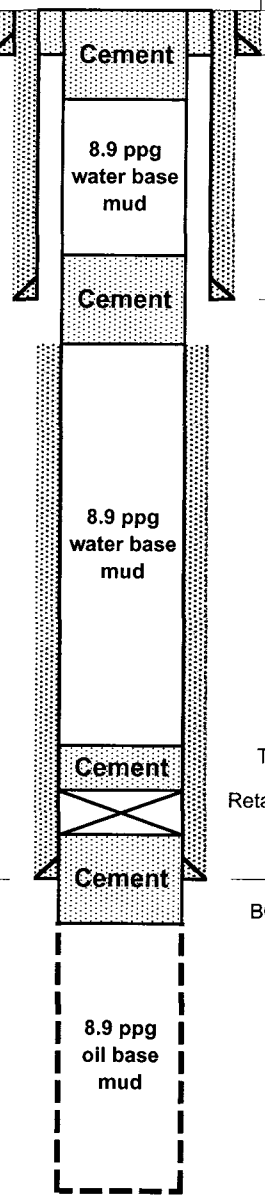
DRILLING WELL PLAN

Antelope Hollow State 32-20
Section 20-T3N-R19E
Daggett County, Utah

PROJECT DESCRIPTION: Plug and abandon well.

WELL PLAN

HOLE	CASING	GEOLOGY	MD/TVD	MUD	CEMENT	DIRECTION	LOGS
Pre-set	20"		100' MD 100' TVD		**BJ cemented w/ 910 sks Premium Lite + 655 sks Class G Circ to surface**		None
17 1/2"	13 3/8" 61 ppf J55 BTC Pc=1540# Pb=3090#		1947' MD 1947' TVD	BOC 200' TOC 1900'		SBHT 90°F	None
12 1/4"	9 5/8" 53.5 ppf P110 LTC Pc=7950# Pb=10900#	Wasatch	2800' 9967' MD 9967' TVD	BOC 2100' TOC 9600' Retainer at 9800'	**BJ cemented w/ 1810 sks Premium Lite + 840 sks Class G - Designed TOC 2800'**	SBHT 170°F	
8 1/2"		FIT 12.5 ppg Lance Ericson Rock Springs Blair Hilliard Actual TD	10323' 11202' 12073' 13189' 13838' 14300'	BOC 10067'			
			18250' MD 18250' TVD	Planned TD		SBHT 253°F	



JMS

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

MARY ANN WRIGHT
Acting Division Director

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number: Antelope Hollow State 32-20
API Number: 43-009-30065
Operator: Noble Energy, Inc.
Reference Document: Original Sundry Notice dated April 26, 2005, received by DOGM on April 26, 2005

Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration. Evidence of compliance with this rule should be supplied to the Division upon completion of reclamation.
3. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
4. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (office) or (801) 733-0983 (home) prior to continuing with the procedure.
5. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet
Petroleum Engineer

April 26, 2005
Date

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

noble energy

DRILLING WELL PLAN

Antelope Hollow State 32-20
Section 20-T3N-R19E
Daggett County, Utah

PROJECT DESCRIPTION: Plug and abandon well.

WELL PLAN

HOLE	CASING	GEOLOGY	MD/TVD	Elevation - 7010' KB	MUD	CEMENT	DIRECTION	LOGS
Pre-set	20"		100' MD 100' TVD		Water Base	BJ cemented w/ 910 sks Premium Lite + 655 sks Class G Circ to surface		None
17 1/2"	13 3/8" 61 ppf J55 BTC Pc=1540# Pb=3090#	Annular Capacity 2.865	1947' MD 1947' TVD	1900'	8.9 ppg Water Base		SBHT 90°F	
12 1/4"	9 5/8" 53.5 ppf P110 LTC Pc=7950# Pb=10900#	Wasatch Capacity 2.517 f/cf	2800'+/-	2100'	9.0 ppg Oil Base Mud	BJ cemented w/ 1810 sks Premium Lite + 840 sks Class G - Designed TOC 2800'	SBHT 170°F	
		FIT 12.5 ppg	9967' MD 9967' TVD					
		Lance	10323'					
		Ericson	11202'					
		Rock Springs	12073'					
		Blair	13189'					
		Hilliard	13838'					
8 1/2"		Actual TD	14300'		8.9 ppg			
			18250' MD 18250' TVD		Planned TD		SBHT 253°F	

JMS

100' Annulus

200' plug

TOC @ 9600'

CICR @ 9900'

10067'

Plug 3
inside 200' = 69 sx
outside 100/(1.15)(2.865) = 30 sx
None
99 sx

Plug 2
200'/(1.15)(2.517) = 69 sx

Plug 1
openhole 100'/(1.15)(1.762) = 50 sx
Below 167'/(1.15)(2.517) = 58 sx
Above 200'/(1.15)(2.517) = 69 sx
177 sx

Open hole Capacity
$\frac{[(1.2)(8.5)]^2}{183.35} = 0.5674 = 1.762$ f/cf

100 Glenborough
Suite 100
Houston, TX 77067-3610

Tel: 281.872.3100
Fax: 281.872.2556
www.nobleenergyinc.com

Onshore Division

noble energy

Fax

Date:

To: DUSTIN DOUCET **From:** MARK STRINGFIELD

Company: UTAH DIVISION OF OIL, GAS AND MINING **Sender's Phone:** 281-874-6780

Receiver's Phone: 801-538-5281 **Sender's Fax:** 281-872-2555

Receiver's Fax: 801-559-3940 **Total No. Pages:** COVER + 4

Subject: SUNDAY NOTICE TO P&A

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Message:

018

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Energy, Inc.

9. API NUMBER: 009-30065

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 874-6765

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL

COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

03/29/2005 - Drill to 11,224
03/30/2005 - Drill to 11,517'. POOH
03/31/2005 - POOH for bit trip. Wash & ream to btm. Drill to 11,562'.
04/01/2005 - Drill to 11,697'
04/02/2005 - Drill to 11,806'.
04/03/2005 - Drill to 11,898'. POOH for bit trip. Service rig. Drill to 11,984'.
04/04/2005 - Drill to 12,183'.
04/05/2005 - Drill to 12,190'. POOH for bit.
04/06/2005 - Ream hole 59 12,190'. Drill to 12,310'.
04/07/2005 - Drill to 12,476'.
04/08/2005 - Drill to 12,633'. Rig Service.
04/09/2005 - Drill to 12,700'. POOH for bit.
04/10/2005 - Rig Service. Wash & ream to 12,700'. Drill to 12,785'.

RECEIVED
APR 18 2005
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 4/11/2005

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

CC 4/19/05
019

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Antelope Hollow State 32-20
9. API NUMBER: 009-30065
10. FIELD AND POOL, OR WILDCAT: Wildcat

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: Noble Energy, Inc.
3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067 PHONE NUMBER: (281) 874-6765
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL COUNTY: Daggett
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Weekly Progress Report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

04/11/2005 - Drill to 12,920'.
04/12/2005 - Drill to 12,089'.
04/13/2005 - Drill to 13,250'.
04/14/2005 - Trip for bit. Reaming tight hole.
04/15/2005 - Wash & ream to 13,254'.
04/16/2005 - Drill to 13,300'. POOH for new bit.
04/17/2005 - Wash & ream hole to 12,400'.

RECEIVED
APR 25 2005
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist
SIGNATURE Patricia Jaenecke DATE 4/18/2005

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

4300930065

DOUBLE JACK TESTING & SERVICES/IPS
Phone (307) 789-9213

020

B.O.P TEST REPORT

B.O.P. TEST PERFORMED ON (DATE) 4/24/05

OIL COMPANY Noble Energy

WELL NAME & NUMBER Antelope Hollow State # 32

SECTION 20

TOWNSHIP 3 N

RANGE 19 E

COUNTY & STATE Dagget

DRILLING CONTRACTOR Unit 166

OIL COMPANY SITE REPRESENTATIVE J. Howell

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST

COPIES OF THIS TEST REPORT SENT TO: Utah Oil & Gas Commission

BLM- Resource Area

ORIGINAL CHART & TEST REPORT ON FILE AT:

DOUBLE JACK TESTING & SERVICES, INC.
PO BOX 2097
EVANSTON, WY 82930

TESTED BY: John McWhorter

RECEIVED
MAY 09 2005
DIV. OF OIL, GAS & MINING

Double Jack Testing & Services Inc.

FIELD TICKET
№ 20741

Accounting Office: P.O. Box 516 Shoshoni, WY 82649 • (307) 876-9390

Field Operations:

Shoshoni, WY	(307) 876-9390
Evanston, WY	(307) 789-9213
Rock Springs, WY	(307) 382-4020
Big Piney, WY	(307) 276-5265
Vernal, UT	(435) 781-0448

DATE 4-24-05
☑ OPERATOR Noble Energy
☐ CONTRACTOR Unit 166
WELL NAME Antelope Hollow State #32

COUNTY	STATE	SECTION	TOWNSHIP	RANGE
Daggett	Utah	20	3N	19E

Items Tested:	LOW TEST PSI	TIME HELD MINUTES	HIGHTEST PSI	TIME HELD MINUTES
Top Pipe Rams	250	5 M	10,000	10 M
Bottom Pipe Rams	250	5	10,000	10
Blind Rams	250	5	10,000	10
Annular B.O.P.	250	5	3500	10
Choke Manifold	250	5	10,000	10
Choke Line	250	5	10,000	10
Kill Line	250	5	10,000	10
Super Choke	250	5	10,000	10
Upper Kelly	250	5	10,000	10
Lower Kelly	250	5	10,000	10
Floor Valve	250	5	10,000	10
Dart Valve	250	5	10,000	10
Casing			—	—

Closing Unit PSI ______
Closing Time of Rams ______
Closing Time of Annular ______
Closed Casing Head Valve ✓
Set Wear Sleeve ______

COMMENTS

WELL NAME & NO. Antelope Hollow St 32-20
AFE NO. 44565
ACTG CODE 24-10
DOLLAR TOTAL BEING APPVD $2563
1ST LEVEL APPROVAL [illegible]
2nd LEVEL APPR. [signature?] DATE 24 Apr 05
MAIL TO: [illegible]
ATTN: [illegible]
P.O. [illegible]
ARDMORE [illegible]
NO INVOICE WILL BE PAID W/O ALL ATTACHED SIGNED FIELD TICKETS

ADDITIONAL TESTS & COMMENTS

DRIILLING ☑ COMPLETION ☐

Company Rep. Jim Howell
Tool Pusher. Brent

		CHARGES
TEST PLUG	13" C22 X 4½ IF	160.00
TOP SUB.	4½ IF	55.00
KELLY SUB.	4½ IF	55.00
X-OVER SUB.		
OTHER		

QUANTITY	RATES		
7 Hrs	UNIT RATES	Minimum 11:30 am 6:30 pm 10,000 psi	600.00
3	ADDITIONAL	Hours @ 85.00	255.00
180	MILEAGE	Round Trip @ 2.10	378.00
80	ANTIFREEZE	gals 50/50 @ 2.00	160.00
	OTHER		

SUBTOTAL 2563.00

TAX ______

TOTAL ______

PURCHASE ORDER # ______

[signature] COMPANY REPRESENTATIVE

[signature] TESTED BY

NO ACCIDENTS

188 DOUBLE JACK TESTING UNIT NUMBER

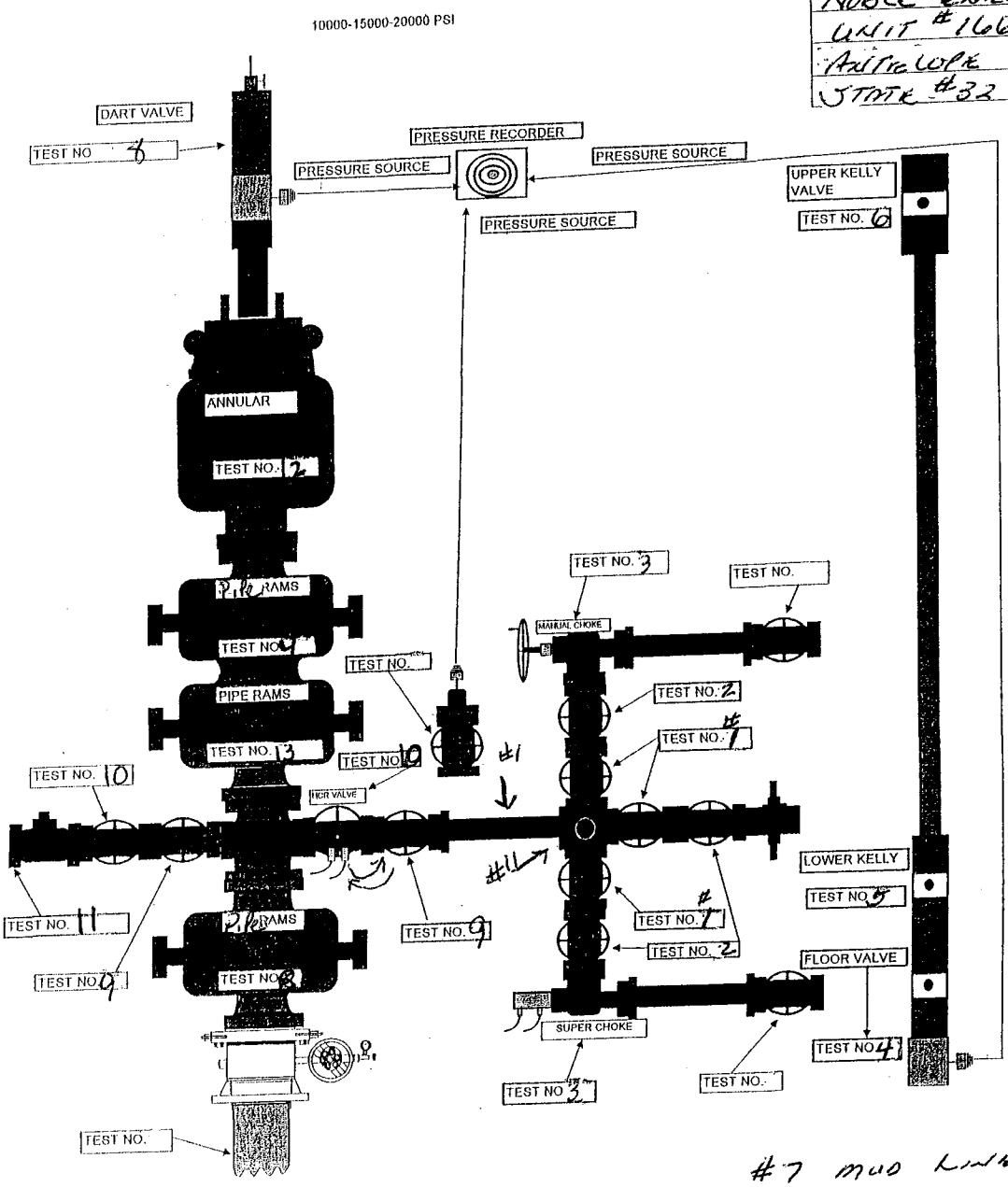
NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure, under the terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services. A LATE CHARGE will be assessed when accounts are not paid when due. THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCENTAGE RATE OF 21% to the previous balance in the account on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable for damages caused by acts of God, or unforeseen circumstances that could not be reasonably anticipated in performing the work done as set forth above.

DOUBLE JACK TESTING & SERVICES/IPS

COMPANY		LEASE & WELL NAME	TEST DATE	RIG NAME & #
Noble Energy		Antelope Hollow #32	4/24/05	Unit 166
TEST	TIME	ITEMS TESTED		
		96 minute rotation		
		Arrive on location 11:30 a.m. rig up to test manifold & wait on new gasket for Cameron test plug - get started on manifold & Kelly		
1	12:50p.m.	Inside manifold valves & flow, Line *tightened 2" LP fittings on manifold riser		
		Valve		
2	1:20	Outside manifold valves		
3	1:40	Super chokes		
		Wait on rig up of Kelly		
4	3:00	Floor valve		
5	3:20	Lower Kelly valve		
6	3:40	Upper Kelly valve		
7	4:00	Mud line to pump		
		* breakout subs on Kelly & set Kelly back & rig up test plug		
8	5:40	Bottom pipe rams & dart		
9	6:00	Top pipe rams - Inside kill line valve, Inside choke line valve.		
10	6:25	# 2 Kill line check valve - HCR valve		
11	6:55	Kill line check valve. Choke line - inside manifold valves & Riser valve		
		* Tightened cap down on check valve		
12	7:30	Annular		
13	8:20	Blind rams		

NOBLE ENERGY
UNIT #166
ANTELOPE HOLLOW
STATE #32



#7 mud Lines From Kelly To Pumps

DOUBLE JACK TESTING

XTO BLUE ENERGY
UNIT 166
ANTELOPE HOLLOW STATE # 32

IPS / Double Jack Testing

4/24/05

Accumulator Function Tests

1 RECORD INITIAL ACCUMULATOR PRESSURE 3000

2 WITH DRILL PIPE & TEST PLUG INSTALLEDIN WELL HEAD.

3 PLACE ALL FUNCTIONING ACCUMULATOR VALVES IN OPEN POSITION
ALLOW ACCUMULATOR TO PRESSURE UP BEFORE SHUTTING OFF ALL PUMPS

4CLOSE ANNULAR / RECORD TIME & PRESSURE.

ANNULAR INTIAL PSI 3000 FINAL PSI 1900 TIME 41

#5 CLOSE PIPE RAMS / RECORD TIME & PRESSURE.

PIPR RAMS INTIAL PSI 1700 FINAL PSI 1650 TIME 9

#6 OPEN PIPE RAMSTO SIMULATE BLIND RAMS / RECORD TIME & PRESSURE.
INTIAL PSI 1650 FINAL PSI 1550 TIME 9

#7 CLOSE HCR (if applicable) / RECORD TIME & PRESSURE.
~~HCR~~ Blind Rams INTIAL PSI 1550 FINAL PSI 1450 TIME 9

#8 ON THREE RAM STACK CLOSE BOTTOM PIPE RAM / RECORD TIME & PRESSURE.
HCR
PIPE RAMS INTIAL PSI 1450 FINAL PSI 1450 TIME 2

#9 WHEN DONE WITH RECORDED TIMES & PRESSURES THERE SHOULD BE AT LEAST 200 PSI OVER PRECHARGE IN THE ACCUMLATOR (1200 PSI)

#10 OPEN ANNULAR

NITROGEN BOTTLES / BLEED OFF TEST

#1 FINISH BLEEDING OFF BOTTLES INTO ACCUMLATOR TANK/RESERVOIR.

#2 WATCH & RECORD WHERE PRESSURE DROPS (accumulator psi)

PRESSURE DROP 900 PSI

#3 ACCUMULATOR PSI SHOULD DROP AT 1100 PSI TO 950 PSI

2 MINUTE TIME TEST / ACCUMULATOR PUMPS

#1 SHUT VALVES TO NITROGEN BOTTLES.

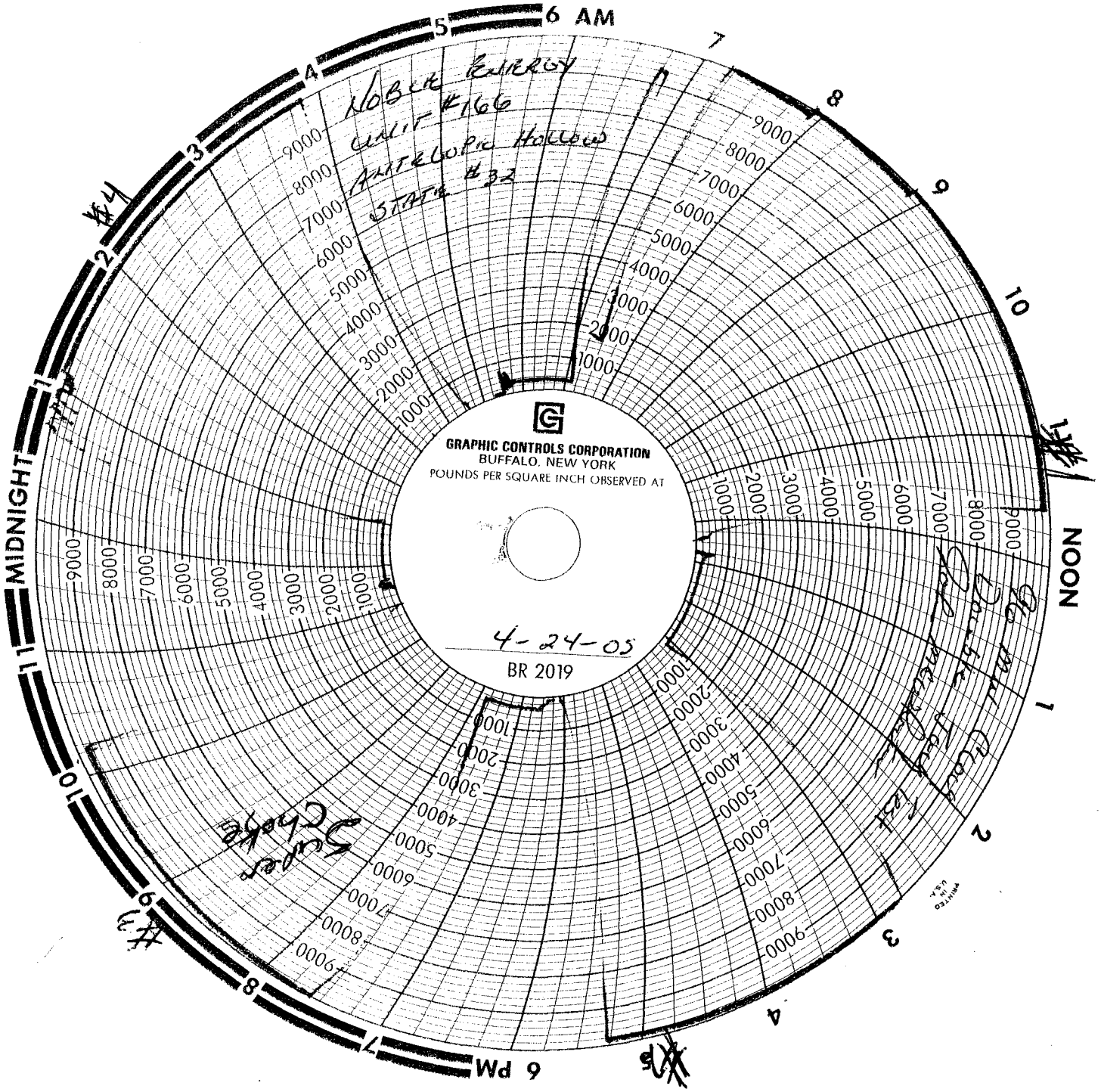
#2 PLACE HCR IN THE OPEN POSITION. (if applicable)

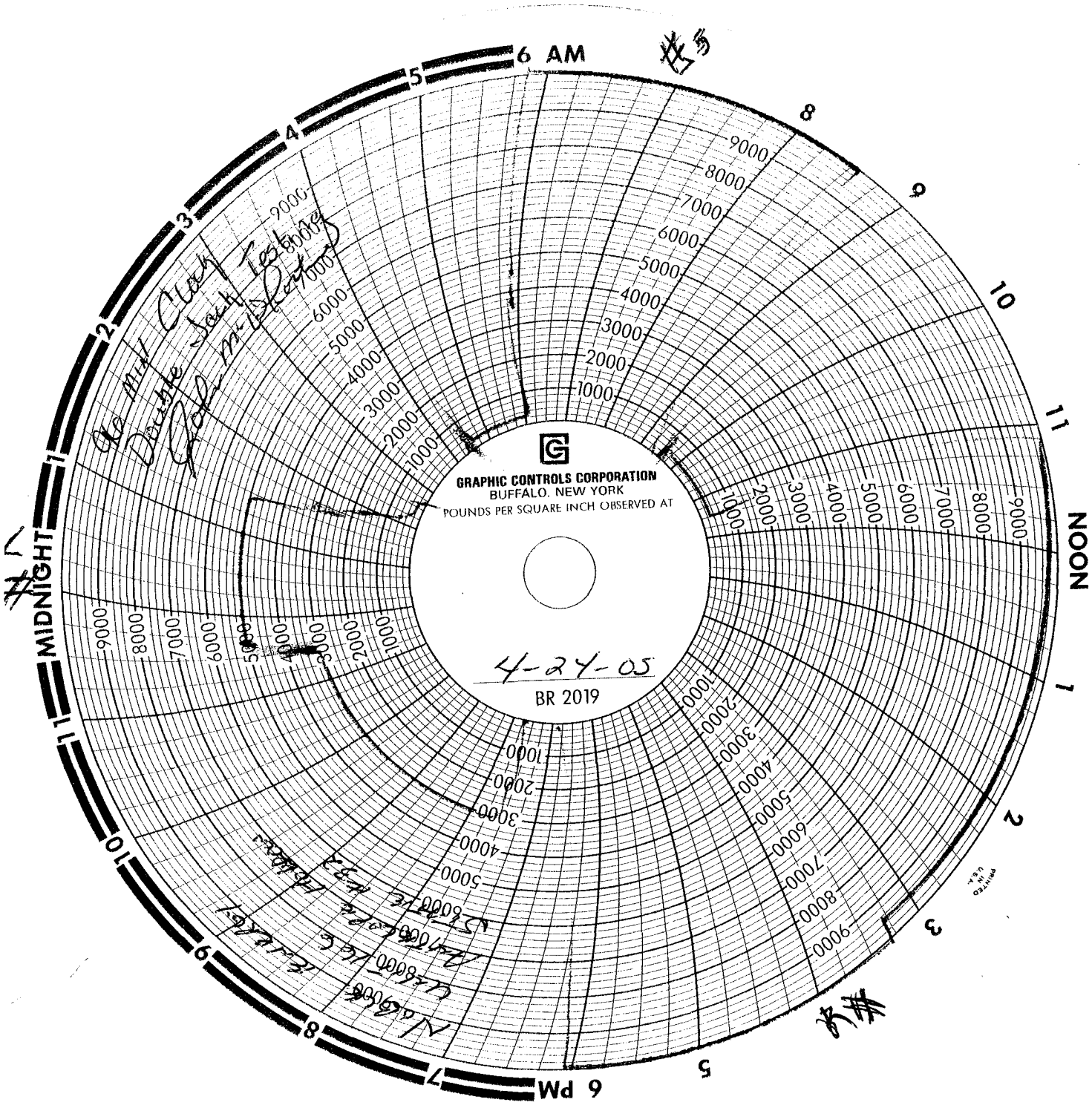
#3 PLACE ANNULAR IN THE CLOSE POSITION.

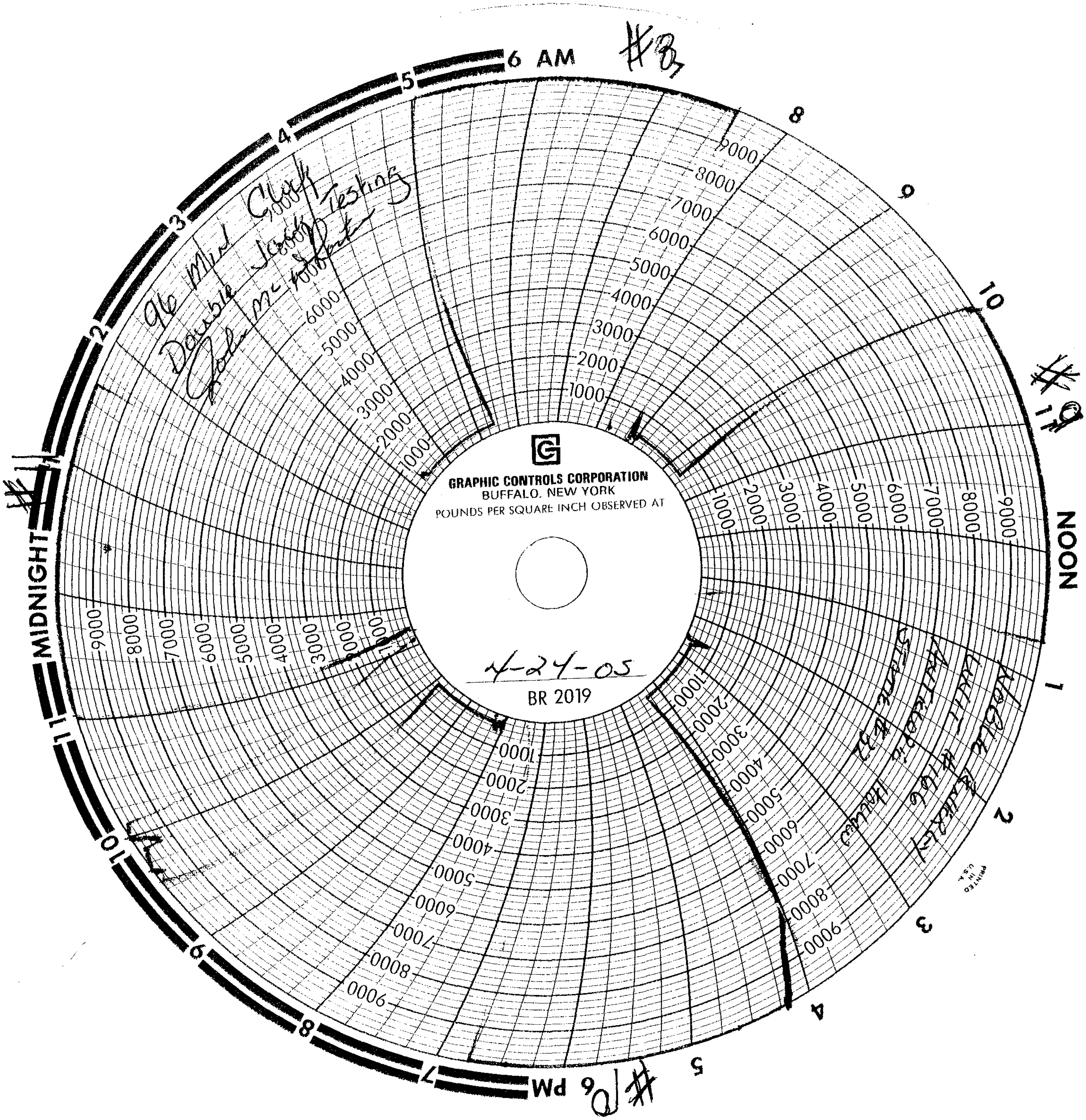
#4 TURN ON PUMPS & RECORD TIME TO PRESSURE UP MANIFOLD ON ACCUMULATOR TO ATLEAST 200PSI OVER PRECHARGE. WITHIN 2 MIN. OR LESS.

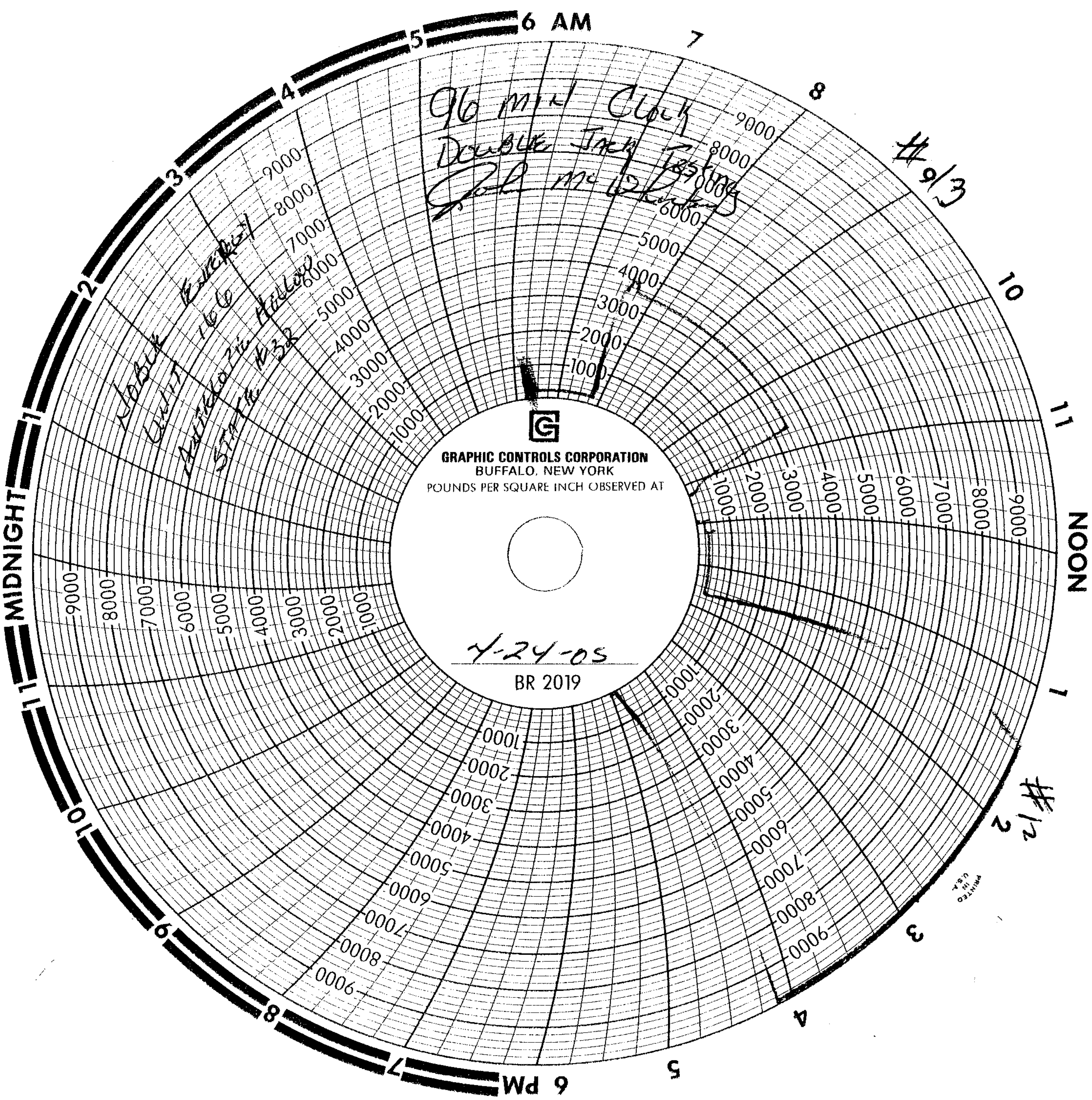
RECORDED TIME 1 MINUTE 49 SEC.

#5 OPEN VALVES TO NITROGEN BOTTLES & PRESSURE THE ACCUMULATOR BACK TO SHUT OFF POINT. THEN OPEN ALL PIPE RAMS & ANNULAR BEFORE PULLING PLUG AND DRILL PIPE OUT OF BOP.


6 AM
NOON
MIDNIGHT
Wd 9
Hobbs Energy
Unit #166
Antelope Hollow
State #32
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT
4-24-03
BR 2019
Super Choke
#4
#3
#5


6 AM
NOON
MIDNIGHT
Wd 9
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT
4-24-05
BR 2019
PRINTED IN U.S.A.


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT
4-24-05
BR 2019
6 AM
NOON
6 PM
MIDNIGHT
96 Mud Check
Double Jack Testing
#8
#9
#10
#11


96 MIN Clock
Double Jack Testing
#9/3
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT
4-24-05
BR 2019
#12
6 AM
NOON
6 PM
MIDNIGHT
PRINTED IN U.S.A.

100 Glenborough
Suite 100
Houston, TX 77067-3299

Tel: 281.872.3100
Fax: 281.876.8891
www.nobleenergyinc.com

Onshore Division

43-009-30065

May 18, 2005

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Re: Antelope Hollow State 32-20
Wildcat Field
API 43-009-30065
Daggett, Utah

Gentlemen;

Enclosed please find, in duplicate, the Completion Report (Form 8) and Sundry Notice (Form 9) for the above referenced well, which was plugged and abandoned. Also enclosed are copies of the logs.

If you have any questions or need additional information, please contact me at (281) 874-6765.

Sincerely,

Patricia Jaenecke
Sr. Regulatory Specialist

Enclosures
Antelope Hollow omp

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☑ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Energy, Inc.

9. API NUMBER: 4300930065

3. ADDRESS OF OPERATOR: 100 Glenborough #100 CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 874-6765

10 FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1844 FNL & 2046 FEL of Section 20
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

12. COUNTY: Daggett

13. STATE: UTAH

14. DATE SPUDDED: 2/2/2005

15. DATE T.D. REACHED: 4/26/2005

16. DATE COMPLETED: 5/1/2005 ABANDONED ☑ READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL): 7093.2

18. TOTAL DEPTH: MD 14,175 TVD 14,175

19. PLUG BACK T.D.: MD 14,175 TVD 14,175

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Induction-Sonic/dipmeter/acoustic imaging, THRI, SDI/DSN

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2	J-55	61.0	0	1,947		PremLt 1,565	2,832	Cir	0
12 1/4	9.875 P110	53.5	0	9,967		PremLt 2,650	6,668	Cal	0

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

RECEIVED
MAY 21 2005
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

☑ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☑ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: P&A

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Lance	10323
				Ericson	11202
				Rock Springs	12073
				Blair	13189
				Hilliard	13838

35. ADDITIONAL REMARKS (Include plugging procedure)

RIH w/Baker cmt retainer. Set @ 9810'. RU Halliburton. Mix & spot 210 sx Class "G" cmt. Pump 28.6 bbls below retainer & 14.3 bbls on top. LD DP. Spot cmt plug from 1900'-2100'. RIH to 210'. Pump top plug to surface (70 sx Class "G") Cut off wellhead & weld on plate.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 5/4/2005

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47543

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

8. WELL NAME and NUMBER: Antelope Hollow State 32-20

2. NAME OF OPERATOR: Noble Energy, Inc.

9. API NUMBER: 009-30065

3. ADDRESS OF OPERATOR: 100 Glenborough CITY Houston STATE TX ZIP 77067

PHONE NUMBER: (281) 874-6765

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1844' FNL & 2046' FEL

COUNTY: Daggett

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 20 3N 19E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☑ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

04/27/2005 - RIH w/Baker cement retainer. Set @ 9810'. Tested DP & retainer to 1000 psi. RU Halliburton. Mixed & spotted 210 sx Class "G" + 0.1% HR-5 (43 bbls slurry @ 18.8 ppg, yield 1.15) Pumped 28.6 bbls below retainer & 14.3 bbls on top of retainer. RU Frank's Westates L/D machine & LD 5" DP.
04/28/2005 - RIH w/OEDP to 2100'. RU Halliburton. spotted cement plug from 1900'-2100' (70 sx Class "G" + 2% CACL2 mixed @ 15.8 ppg, 14.3 bbls slurry). Finish LD DP & BHA. RIH to 210'. pumped top plug from 210' to surface (70 sx Class "G" + 2% CACL2, 14.3 bbls Slurry @ 15.8 ppg). RD Halliburton
04/29/2005 - Cut off wellhead
04/30/2005 - RU Halliburton. Ran 1" tubing in 9 5/8" x 13 3/8" annulus to 100'. Mixed & pumped 50 sx Class "G" cmt. Got cement returns to surface. RD Halliburton. Welded plate on top of cut-off 13 3/8" x 9 5/8" csg.
05/01/2005 - Release rig @ 0600.
**The hole was circulated with 662 bbls 8.8# water based mud. Approval for welding the plate on the csg was given by Chris Kierst with the Department of Natural Resources.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 5/4/2005

(This space for State use only)

RECEIVED
MAY 2 / 2005
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Antelope Hollow State 32-20

API number: 009-30065

Well Location: QQ SWNE Section 20 Township 3N Range 19E County Daggett

Well operator: Noble Energy, Inc.

Address: 100 Glenborough, #100

city Houston state TX zip 77067 Phone: (281) 874-6765

Drilling contractor: Unit Drilling Company

Address: 7130 S. Lewis, Ste. 1000

city Tulsa state OK zip 74136 Phone:

Water encountered (attach additional pages as needed):

DEPTH		VOLUME	QUALITY
FROM	TO	(FLOW RATE OR HEAD)	(FRESH OR SALTY)
20'	20'	Water in Conductor Hole	Fresh

Formation tops: (Top to Bottom)

1	Lance - 10323	2	Ericson - 11202	3	Rock Springs - 12073
4	Blair - 13189	5	Hilliard - 13838	6	
7		8		9	
10		11		12	

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Patricia Jaenecke TITLE Sr. Regulatory Specialist

SIGNATURE Patricia Jaenecke DATE 05/25/2005

(5/2000)

RECEIVED
MAY 27 2005
DIV. OF OIL, GAS & MINING

#3009300665
3N 19E Sec. 20

EARTHWORKS INC.

8 Sunny Terrace
Riverton, WY 82501

Noble Energy, Inc.
Antelope Hollow 32-20

KEN HOSTETTER
307-851-6515 Cell
307-857-4260 Office

DAILY ACTIVITY REPORT

Noble Energy, Inc. **Antelope Hollow 32-20**

May 19-05 **Thursday**

6:48 AM:	Arrive on location, have safety meeting.
7:16 AM:	Excavator was delivered on location.
8:20 AM:	First two pneumatics are on location.
9:00 AM:	Start unloading reagent into reserve pit.
11:14 AM:	Done unloading first two pneumatics, Third pneumatics arrives on location start unloading reagent into pit.
12:15 PM:	Done unloading third truck, start-mixing reagent.
3:30 PM:	Done mixing pit, start backfilling.
6:30 PM:	Finished backfilling, done for the day.
6:45 PM:	Off location.

May 20-05 **Friday**

7:00 AM:	Arrived on location.
7:20 AM:	First two pneumatics trucks arrive on location, have safety meeting.
8:00 AM:	Start unloading reagent into reserve pit.
10:15 AM:	Done unloading first two trucks, third truck arrives, start-unloading reagent.
11:55 AM:	Start mixing reagent and sludge together.
3:40 PM:	Finished mixing reagent, take composite sample of treated material, start-covering pit.
4:30 PM:	Done for the day, off location.

May 23-05 Monday

8:00 AM: Arrive on location, have safety meeting.

8:10 AM: Start unloading pneumatic trucks into reserve pit.

12:15 PM: Done unloading reagent, start mixing reagent and sludge together.

2:30 PM: Finished mixing pit, take composite sample of treated material.

3:05 PM: Done for the day, off location.

May 24-05 Tuesday

8:00 AM: Arrive on location, have safety meeting.

8:30 AM: Start unloading pneumatic truck into reserve pit.

9:58 AM: Done unloading reagent into pit.

10:14 AM: Start mixing reagent into pit.

12:00 PM: Finished mixing, take composite sample of treated material.

12:31 PM: Start placing cover soil over pit.

2:44 PM: Finished cover soil, project finished, off location.

EARTHWORKS INC.

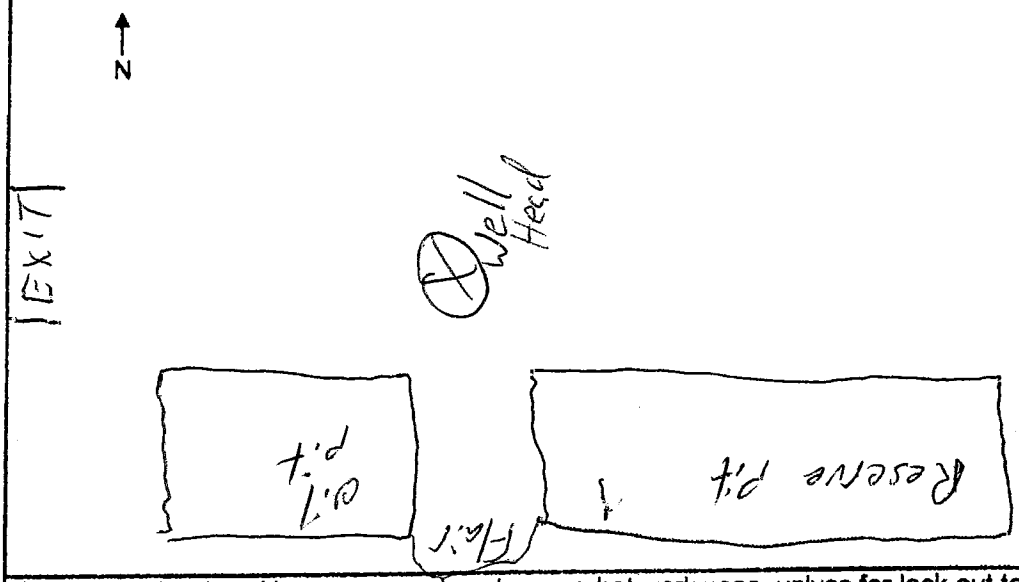
DAILY JOBSITE SAFETY ASSESSMENT FORM (JSA)

Date: 5-19-05-5-24-05 Start Time: 7.00 Am Stop Time: 5.00 pm

Work Activity (Job): SOLIDIFY RESRVE PIT Location: Noble Energy Antelope Hollow 32-20

Sequence of Basic Job Steps	Potential Accidents or Hazards	Recommendations to Eliminate or Reduce Potential Hazards
unload reagent		
	dusty conditions	work upwind-check
	pressure vessel & lines	equipment daily
mix pit	heavy equipment	communication
		know movement of
cover pit	same above	equipment

Site Drawing



Key Information (smoking area, overhead power, hot work zone, valves for lock out tag out, confined space emergency escape)

	Y	N		Y	N
Hot work permits	☐	☐	Confined space	☐	☐
Trenching	☐	☐	Power lines	☐	☐
USA notified	☐	☐	Blue Sky	☐	☐
			Other _____	☐	☐

Safety equipment required to do this job

Hard hat ✓	Exhaust fans	Barricades	Fire extinguisher ✓	date
Safety shoes ✓	Safety helmets ✓	Respirator	SCBA	date
Safety glasses ✓	Face shields	Breathing Air	H2S monitor	date
Gloves ✓	Goggles	Lock out tag out	Tri monitor	date
			First aid kit ✓	date

Supervisor Responsible: Mitch Diener Contract or Supervisor: Ken

Signatures:

Mitch Diener

Raymond Pattison

Dale Tavenner

Earthworks, Inc.

Pre-Testing Results

Operator Noble Energy

Well Antelope Hollow 32-20

TPH 22% **Water** 62% **Solids** 16%

All above values are arrived at using a baroid retort distillation unit and represent percentage of volume of sample tested.

Tested by Kenneth Hatette

CONTI TESTING LABORATORIES, INC.
P.O. BOX 174 - BETHEL PARK, PA 15102
(412) 833-7766 • Fax (412) 854-0373
contilab@verizon.net

7/11/2005

Earthworks Inc
8 Sunny Terrace
Riverton Wyoming 82501
Mr. Ken Hostetter
Office: 307-851-6515
Fax: 307-857-4260
earthworks04@aol.com

Received: 7/1/2005
Sampled By: client
CTL ID: 94160

Sample ID: **Noble Energy Antelope Hollow 32-20**

	Results (mg/l)	Method TCLP Extraction	DL
Total Dissolved Solids	3,950	EPA 160.1	10
Total Petroleum Hydrocarbon	2.9	EPA 413.2	0.1

ref: TCLP Extraction Fluid # 2

Approved by:

CONTI TESTING LABORATORIES, INC.
P.O. BOX 174 - BETHEL PARK, PA 15102
(412) 833-7766 • Fax (412) 854-0373
contilab@verizon.net

Earthworks Inc
8 Sunny Terrace
Riverton Wyoming 82501
Mr. Ken Hostetter
Office: 307-851-6515
Fax: 307-857-4260
earthworks04@aol.com

7/11/2005

Received: 7/1/2005
Sampled By: client
CTL ID: 94159

Sample ID: **Noble Energy Antelope Hollow 32-20**

	Results (mg/l)	Method Wyoming Leachate	DL
Total Dissolved Solids	4,860	EPA 160.1	10
Total Petroleum Hydrocarbon	3.2	EPA 413.2	0.1

ref: WYO Leachate

Approved by:

Earthworks, Inc.

Regulatory Agency Pit Closure Report

1. Report submitted to Utah Oil Gas
2. Content of pit Oil based drill cuttings and sludge
3. Size of pit 3,976 bbls
4. Operator Noble Energy, Inc
5. Closure Contractor Earthworks,Inc.
6. Lease Name & Number Antelope Hollow 32-20
7. Location Sec 20 T3N R19E Dagget Co. Utah
8. Start Date 05-19-05 End Date 05-24-05
9. Treating Materials added LKD, CKD, Portland cement.
10. Was pit Lined YES
11. Pretreatment Analysis (attached)
    TPH 22% TDS N/A
12. Post treatment analysis (attached)
    Wyoming Leachate testing method
    TPH 2.9 < 10mg/L TDS 3,950 < 5000 mg/l
13. Stiffness/Compressive strength test results Ran 627 scraper over pit
14. Type of pit Reserve pit

Signed Kenneth Hatlett **Title** President **Date** 07-18-05